

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 3.54354 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_137_166

Perfect score: 149

Sequence: 1 STSQNDSTSGTSTSDSDPMQLKMF 30

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfilesei.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	149	100.0	385	1	US-08-891-254-3
2	149	100.0	385	2	US-08-819-539-3
3	149	100.0	385	5	PCT-US93-06243-2
4	149	100.0	385	5	PCT-US96-08819-3
5	149	100.0	403	2	US-08-200-724A-2
6	149	100.0	403	2	US-09-030-270A-3
7	149	100.0	403	3	US-08-851-376A-2
8	149	100.0	403	3	US-08-984-207-3
9	149	100.0	403	3	US-09-013-587-3
10	149	100.0	403	4	US-09-086-118-23
11	57	38.3	669	4	US-09-107-532A-6532
12	54	36.2	283	4	US-09-198-452A-424
13	54	36.2	391	2	US-08-454-549-3
14	54	36.2	391	3	US-08-454-552-3
15	54	36.2	391	3	US-08-676-351-4
16	54	36.2	398	1	US-08-149-093A-5
17	54	36.2	398	2	US-08-911-245-5
18	54	36.2	398	2	US-08-514-451A-8
19	54	36.2	398	3	US-09-170-331-5
20	54	36.2	398	3	US-08-889-108-2
21	54	36.2	398	3	US-08-120-601B-2
22	54	36.2	398	3	US-08-188-275A-3
23	54	36.2	398	3	US-08-397-707-16
24	54	36.2	398	3	US-09-510-473-5
25	54	36.2	398	4	US-09-351-198-3
26	54	36.2	398	4	US-09-113-426-3
27	54	36.2	398	4	US-09-048-916B-7

28	54	36.2	398	4	US-08-405-271A-16	Sequence 16, Appl
29	54	36.2	398	5	PCT-US94-10358-2	Sequence 2, Appl1
30	54	36.2	1258	2	US-08-310-912A-107	Sequence 107, App
31	54	36.2	1258	3	US-09-301-085-107	Sequence 107, App
32	54	36.2	1294	3	US-08-930-996A-10	Sequence 10, Appl
33	53	35.6	277	6	5164481-2	Patent No. 5164481
34	53	35.6	1063	1	US-08-093-453B-3	Sequence 3, Appl1
35	53	35.6	1063	1	US-08-127-499A-8	Sequence 8, Appl1
36	53	35.6	1063	1	US-08-482-847-8	Sequence 8, Appl1
37	51	34.2	683	4	US-09-620-413C-357	Sequence 357, App
38	51	34.2	683	4	US-09-598-419-357	Sequence 357, App
39	51	34.2	821	4	US-09-556-877-195	Sequence 195, App
40	51	34.2	821	4	US-09-620-412C-195	Sequence 195, App
41	51	34.2	821	4	US-09-598-419-195	Sequence 195, App
42	51	34.2	1776	4	US-09-556-877-179	Sequence 179, App
43	51	34.2	1776	4	US-09-620-412C-179	Sequence 179, App
44	51	34.2	1776	4	US-09-598-419-179	Sequence 179, App
45	50	33.6	300	4	US-09-328-352-7197	Sequence 7197, Ap

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-3

Query Match 100.0%; Score 149; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 STSQNDSTSGTSTSDSDPMQLKMF 30

```
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMF 166
|||||
RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3
Query Match 100.0%; Score 149; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMF 30
|||||
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMF 166
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
Query Match 100.0%; Score 149; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMF 30
|||||
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMF 166
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
```

```
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2
Query Match 100.0%; Score 149; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMF 30
|||||
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMF 166
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
```

```

; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

```

Query Match 100.0%; Score 149; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels

Qy	1	STSQND	STSG	TDST	SDSS	DP	MQ	LL	KM	FS	30
Db	137	STSQND <td>STSG <td>TDST <td>SDSS <td>DP <td>MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td></td></td></td></td></td>	STSG <td>TDST <td>SDSS <td>DP <td>MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td></td></td></td></td>	TDST <td>SDSS <td>DP <td>MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td></td></td></td>	SDSS <td>DP <td>MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td></td></td>	DP <td>MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td></td>	MQ <td>LL <td>KM <td>FS <td>168</td> </td></td></td>	LL <td>KM <td>FS <td>168</td> </td></td>	KM <td>FS <td>168</td> </td>	FS <td>168</td>	168

RESULT 5
US-08-200-724A-2

```

1 Sequence 2. Application US/08200724A
2
3 Patent No. 5849868
4
5 GENERAL INFORMATION:
6
7 APPLICANT: Wei, Zhong-Min
8 APPLICANT: Bauer, David W.
9 APPLICANT: Beer, Steven V.
10 APPLICANT: Collmer, Alan
11 APPLICANT: He, Sheng-Yang
12 APPLICANT: Laby, Ron J.
13
14 TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
15
16 NUMBER OF SEQUENCES: 5
17
18 CORRESPONDENCE ADDRESS:
19 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
20 STREET: Clinton Square
21 CITY: Rochester
22 STATE: New York
23 COUNTRY: U.S.A.

```

```

Query Match      100.0%; Score 149; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy	1	STSQNDD	STSGT	STD	STD	SSD	SSD	PMQ	QL	KMF	30
Db	137	STSQNDD <th>STSGT</th> <th>STD</th> <th>STD</th> <th>SSD</th> <th>SSD</th> <th>PMQ</th> <th>QL</th> <th>KMF</th> <th>166</th>	STSGT	STD	STD	SSD	SSD	PMQ	QL	KMF	166

RESULT 6
US-09-030-270A-3

```

; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
;
; APPLICANT: Zitter, Thomas A.
;
; APPLICANT: Wei, Zhong-Min
;
; TITLE OF INVENTION: INSECT CONTROL WITH A
;
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
;
; NUMBER OF SEQUENCES: 10
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
;
; STREET: P.O. Box 1051, Clinton Square
;
; CITY: Rochester
;
; STATE: New York
;
; COUNTRY: U.S.A.
;
; ZIP: 14603

```

Query Match	100.0%	Score 149;	DB 2;	Length 403;
Best Local Similarity	100.0%	Pred. NO. 2.1e-14;		
Matches 30;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1. STSQNDSTSGTDTSDSSDPMQQLKMFS	30
Db	137 STSQNDSTSGTDTSDSSDPMQQLKMFS	166

RESULT 7
US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No 6174717

APPLICANT: Lady, Ron
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
NUMBER OF SEQUENCES: 5
NUMBER OF INVENTIONS: IN PLANTS
CORRESPONDENCE ADDRESS:
ADDRESS: Nixon Peabody LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: NY
COUNTRY: U.S.A.
ZIP: 14603

RESULT 6
US-09-030-270A-3

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,376A
FILING DATE: 05-MAY-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/200,724
FILING DATE: 23-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10035
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 149; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166

RESULT 8
US-08-984-207-3
Sequence 3, Application US/08984207
Patent No. 6235974
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,230
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 149; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166

RESULT 9
US-09-013-587-3
Sequence 3, Application US/09013587
Patent No. 6277814
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-3

Query Match 100.0%; Score 149; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166


```
RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 149; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDSSTSDSPMQQLKMF 30
Db 137 STSQNDSTSGTDSSTSDSPMQQLKMF 166

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSES: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
```

```
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
US-09-107-532A-6532

Query Match 38.3%; Score 57; DB 4; Length 669;
Best Local Similarity 63.2%; Pred. No. 2.3;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDSTSGTDSSTSDSD 20
Db 534 TSQSDSTDTTSTSDSD 552

RESULT 12
US-09-198-452A-424
; Sequence 424, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 424
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-424

Query Match 36.2%; Score 54; DB 4; Length 283;
Best Local Similarity 45.8%; Pred. No. 2.2;
Matches 11; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 7 DSTSGTDSSTSDSPMQQLKMF 30
Db 144 DKTTGCGGSSVSSEQLQQLSLVS 167

RESULT 13
US-08-454-549-3
```

```
; Sequence 3, Application US/08454549
; Patent No. 5866324
; GENERAL INFORMATION:
; APPLICANT: EPPLER, C. Mark
; APPLICANT: OZENBERGER, Bradley A.
; APPLICANT: HUMLES, Jeffrey D.
; TITLE OF INVENTION: CDNA'S ENCODING PROTEINS CLOSELY RELATED
; TITLE OF INVENTION: TO OPIOID RECEPTORS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby, P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/454,549
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A818-US5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 391 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Rat
; US-08-454-549-3

Query Match 36.2%; Score 54; DB 2; Length 391;
Best Local Similarity 55.6%; Pred. No. 3.3;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 7 DSTSGTDTSTSDSDPMQ 24
Db 2 DSSTGPGNTSDCSDPLAQ 19

RESULT 14
US-08-454-552-3
; Sequence 3, Application US/08454552
; Patent No. 6005072
; GENERAL INFORMATION:
; APPLICANT: EPPLER, C. Mark
; APPLICANT: OZENBERGER, Bradley A.
; APPLICANT: HUMLES, Jeffrey D.
; TITLE OF INVENTION: CDNA'S ENCODING PROTEINS CLOSELY RELATED
; TITLE OF INVENTION: TO OPIOID RECEPTORS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby, P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

```
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/454,552
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A818-US4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 391 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Rat
; US-08-454-552-3

Query Match 36.2%; Score 54; DB 3; Length 391;
Best Local Similarity 55.6%; Pred. No. 3.3;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 7 DSTSGTDTSTSDSDPMQ 24
Db 2 DSSTGPGNTSDCSDPLAQ 19

RESULT 15
US-08-676-351-4
; Sequence 4, Application US/08676351C
; Patent No. 6046026
; GENERAL INFORMATION:
; APPLICANT: EPPLER, CECIL
; APPLICANT: OZENBERGER, BRADLEY
; APPLICANT: HUMLES, JEFFREY
; TITLE OF INVENTION: CDNAS ENCODING PROTEINS CLOSELY RELATED
; TITLE OF INVENTION: TO OPIOID RECEPTORS
; FILE REFERENCE: 0646/1A818US1
; CURRENT APPLICATION NUMBER: US/08/676,351C
; CURRENT FILING DATE: 1996-09-12
; EARLIER APPLICATION NUMBER: PCT/US95/00939
; EARLIER FILING DATE: 1995-01-20
; EARLIER APPLICATION NUMBER: US 08/185,360
; EARLIER FILING DATE: 1994-01-21
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Rat
; US-08-676-351-4

Query Match 36.2%; Score 54; DB 3; Length 391;
Best Local Similarity 55.6%; Pred. No. 3.3;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 7 DSTSGTDTSTSDSDPMQ 24
Db 2 DSSTGPGNTSDCSDPLAQ 19

Search completed: January 20, 2004, 14:57:54
Job time : 4.54354 secs
```

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.5976 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_150_179

Perfect score: 151
Sequence: 1 STSDSDPQQLKMFSEIMQSLFGDQDG 30

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*
1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/prodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	151	100.0	403	9	US-09-086-118-23
2	151	100.0	403	9	US-09-835-684-3
3	151	100.0	403	9	US-09-880-371-3
4	151	100.0	403	9	US-09-879-248-3
5	151	100.0	403	9	US-09-770-693-3
6	151	100.0	403	10	US-09-766-348-3
7	151	100.0	403	12	US-10-387-806-23
8	151	100.0	403	15	US-10-034-158-3
9	151	100.0	403	15	US-10-010-390-3
10	52.5	34.8	456	12	US-10-369-493-21644
11	50.5	33.4	455	12	US-10-369-493-1270
12	50.5	33.4	455	12	US-10-369-493-20336
13	49	32.5	135	12	US-09-819-094-18
14	49	32.5	136	15	US-10-043-487-337
15	49	32.5	191	12	US-10-153-207-2

16	49	32.5	192	12	US-09-819-094-17
17	49	32.5	229	15	US-10-103-313-411
18	48	31.8	97	10	US-09-738-626-5532
19	48	31.8	283	12	US-10-289-762-424
20	48	31.8	1085	12	US-10-369-493-21699
21	48	31.8	2437	12	US-10-345-072-85
22	48	31.8	2437	15	US-10-195-144-85
23	47	31.1	166	12	US-10-389-674-67
24	47	31.1	480	12	US-10-374-979-106
25	46	30.5	317	15	US-10-066-320-4
26	46	30.5	782	15	US-10-106-698-6231
27	46	30.5	911	15	US-10-068-320-2
28	46	30.5	911	15	US-10-087-464-6
29	46	30.5	911	15	US-10-087-464-8
30	46	30.5	1186	12	US-10-369-493-23124
31	45.5	30.1	112	11	US-09-764-872-297
32	45.5	30.1	203	12	US-10-369-493-18883
33	45.5	30.1	203	12	US-10-369-493-18891
34	45.5	30.1	273	12	US-10-369-493-20096
35	45	29.8	212	15	US-10-127-032-166
36	45	29.8	995	15	US-10-234-432-69
37	44.5	29.5	114	11	US-09-764-891-4151
38	44.5	29.5	643	12	US-10-108-260A-4552
39	44	29.1	103	9	US-09-107-058-3
40	44	29.1	103	9	US-09-761-117-3
41	44	29.1	390	12	US-10-108-260A-4549
42	44	29.1	390	12	US-10-104-047-3849
43	44	29.1	417	12	US-10-116-275-224
44	44	29.1	439	12	US-10-264-049-2660
45	44	29.1	874	11	US-09-893-519A-50

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Baby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRADEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 2

US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
APPLICANT: Remick, Dean
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
TITLE OF INVENTION: DESICCATION
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 3

US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Derocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 4

US-09-879-248-3
Sequence 3, Application US/09879248
Patent No. US20020062500A1
GENERAL INFORMATION:
APPLICANT: Fan, Hao
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 21829/81
CURRENT APPLICATION NUMBER: US/09/879,248
CURRENT FILING DATE: 2001-06-12
PRIOR APPLICATION NUMBER: 60/212,211
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 5

US-09-770-693-3
Sequence 3, Application US/09770693
Patent No. US20020069434A1
GENERAL INFORMATION:
APPLICANT: Beer, Steven V.
APPLICANT: Bauer, David W.
TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
FILE REFERENCE: 19603/2501
CURRENT APPLICATION NUMBER: US/09/770,693
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,565
PRIOR FILING DATE: 2000-01-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 6

```

US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Deyun
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; FILE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 151; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 151; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min

```

```

; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 151; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 151; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 10
US-10-369-493-21644
; Sequence 21644, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493

```

;
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21644
; LENGTH: 456
; TYPE: PRT
; ORGANISM: Pyrococcus abyssi
US-10-369-493-21644

Query Match 34.8%; Score 52.5; DB 12; Length 456;
Best Local Similarity 48.1%; Pred. No. 19;
Matches 13; Conservative 5; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30
Db 218 EPNEENLKFEIIVKSLGADFGVAQDG 244

RESULT 11

US-10-369-493-1270
; Sequence 1270, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1270
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Pyrococcus horikoshii
US-10-369-493-1270

Query Match 33.4%; Score 50.5; DB 12; Length 455;
Best Local Similarity 44.4%; Pred. No. 37;
Matches 12; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30
Db 218 EPNEENLKFEIIVKALGADFGVAQDG 244

RESULT 12

US-10-369-493-20336
; Sequence 20336, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 20336
; LENGTH: 455
; TYPE: PRT

;
; ORGANISM: Pyrococcus horikoshii
US-10-369-493-20336

Query Match 33.4%; Score 50.5; DB 12; Length 455;
Best Local Similarity 44.4%; Pred. No. 37;
Matches 12; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30
Db 218 EPNEENLKFEIIVKALGADFGVAQDG 244

RESULT 13

US-09-819-094-18
; Sequence 18, Application US/09819094
; Publication No. US20030186382A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, Richard I.
; APPLICANT: Martial, Joseph A.
; APPLICANT: Struman, Ingrid
; APPLICANT: Taylor, Robert
; APPLICANT: Bentzien, Frauke
; TITLE OF INVENTION: No. US20030186382A1el Antiangiogenic Peptide Agents and Their
; FILE REFERENCE: UCSP-018/02US
; CURRENT APPLICATION NUMBER: US/09/819,094
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/076,675
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/046,394
; PRIOR FILING DATE: 1997-05-12
; NUMBER OF SEQ ID NOS: 34
; SEQ ID NO 18
; LENGTH: 135
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-094-18

Query Match 32.5%; Score 49; DB 12; Length 135;
Best Local Similarity 48.3%; Pred. No. 15;
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 106 TSDSD--YHLLKDLKEGIQILMGRLDG 132

RESULT 14

US-10-043-487-337
; Sequence 337, Application US/10043487
; Publication No. US20030055220A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; APPLICANT: Pierre, LEGRAIN
; TITLE OF INVENTION: Protein-protein interactions between Shigella Flexneri polypeptide
; FILE REFERENCE: B4778A
; CURRENT APPLICATION NUMBER: US/10/043,487
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/261,130
; PRIOR FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 561
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 337
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Shigella Flexneri
US-10-043-487-337

Query Match 32.5%; Score 49; DB 15; Length 136;
Best Local Similarity 48.3%; Pred. No. 15;
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQOLLKMFSEIMQSLFGDQDG 30
||||| :||| :||| :||| :|||
Db 50 TSDSD--YHLLKDLBEGIQTLNGLRLEDG 76

RESULT 15

US-10-153-207-2
; Sequence 2, Application US/10153207
; Publication No. US20030153003A1
; GENERAL INFORMATION:
; APPLICANT: James A. Wells
; APPLICANT: Brian C. Cunningham
; TITLE OF INVENTION: GROWTH HORMONE VARIANTS
; FILE REFERENCE: 669.12-US-C7
; CURRENT APPLICATION NUMBER: US/10/153,207
; CURRENT FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 08/479,884
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/190,723
; PRIOR FILING DATE: 1994-02-02
; PRIOR APPLICATION NUMBER: 07/960,227
; PRIOR FILING DATE: 1992-10-13
; PRIOR APPLICATION NUMBER: 07/875,204
; PRIOR FILING DATE: 1992-04-27
; PRIOR APPLICATION NUMBER: 07/428,066
; PRIOR FILING DATE: 1989-10-26
; PRIOR APPLICATION NUMBER: 07/264,611
; PRIOR FILING DATE: 1988-10-28
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 191
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-153-207-2

Query Match 32.5%; Score 49; DB 12; Length 191;
Best Local Similarity 48.3%; Pred. No. 23;
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQOLLKMFSEIMQSLFGDQDG 30
||||| :||| :||| :||| :|||
Db 105 TSDSD--YHLLKDLBEGIQTLNGLRLEDG 131

Search completed: January 20, 2004, 14:55:42
Job time : 9.5976 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 12.4024 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-31_COPY_190_294

Perfect score: 536

Sequence: 1 DIIGQOLGNQSDAGSLAGT.....PQTGSANGGSAQDLQDL 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/prodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/prodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/prodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/prodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	341	1	US-08-062-024B-5
2	536	100.0	341	1	US-08-891-254-5
3	536	100.0	341	2	US-08-756-407-5
4	536	100.0	341	2	US-08-819-539-5
5	536	100.0	341	2	US-09-030-270A-5
6	536	100.0	341	3	US-08-984-207-5
7	536	100.0	341	3	US-09-013-587-5
8	536	100.0	341	4	US-09-086-118-25
9	536	100.0	341	5	PCT-US94-05014-5
10	536	100.0	341	5	PCT-US96-08819-5
11	102	19.0	328	1	US-08-229-287-4
12	99	18.5	2763	3	US-08-496-944-2
13	90	16.8	447	3	US-09-120-927-2
14	89.5	16.7	674	1	US-08-317-522A-3
15	89.5	16.7	674	1	US-08-439-818A-3
16	89.5	16.7	674	2	US-08-751-965-3
17	89.5	16.7	674	2	US-08-738-975-3
18	89.5	16.7	674	2	US-08-728-626-3
19	89.5	16.7	674	3	US-08-808-599A-3
20	89.5	16.7	749	1	US-08-317-522A-2
21	89.5	16.7	749	1	US-08-439-818A-2
22	89.5	16.7	749	2	US-08-751-965-2
23	89.5	16.7	749	2	US-08-738-975-2
24	89.5	16.7	749	2	US-08-728-626-2
25	89.5	16.7	749	3	US-08-808-599A-2
26	88	16.4	259	4	US-09-436-434-2
27	86.5	16.1	1160	3	US-08-808-599A-24

28	84	15.7	1415	4	US-09-252-991A-26438	Sequence 26438, A
29	83	15.5	424	3	US-09-120-817-2	Sequence 2, Appli
30	83	15.5	460	4	US-09-056-556-184	Sequence 184, App
31	83	15.5	460	4	US-09-072-596-179	Sequence 179, App
32	82.5	15.4	870	2	US-09-010-928B-2	Sequence 2, Appli
33	82	15.3	199	4	US-09-328-352-7802	Sequence 7802, Ap
34	81.5	15.2	479	3	US-09-177-349-3	Sequence 3, Appli
35	81	15.1	503	3	US-08-845-258-52	Sequence 52, Appl
36	81	15.1	503	3	US-09-528-784A-52	Sequence 52, Appl
37	81	15.1	503	4	US-09-569-098A-52	Sequence 52, Appl
38	81	15.1	503	4	US-09-528-784A-85	Sequence 85, Appl
39	81	15.1	666	4	US-09-569-098A-85	Sequence 85, Appl
40	81	15.1	729	4	US-09-252-991A-32535	Sequence 32535, A
41	81	15.1	1132	4	US-09-528-784A-87	Sequence 87, Appl
42	81	15.1	1132	4	US-09-569-098A-87	Sequence 87, Appl
43	81	15.1	276	3	US-08-506-553C-26	Sequence 26, Appl
44	80	14.9	344	1	US-08-891-254-7	Sequence 7, Appli
45	80	14.9	344	1	US-08-891-254-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-08-062-024B-5
; Sequence 5, Application US/08062024B
; Patent No. 5708139
; GENERAL INFORMATION:
; APPLICANT: Alan Collmer and Sheng-Yang He
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/062,024B
; FILING DATE: May 17th 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1425
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-062-024B-5

Query Match 100.0%; Score 536; DB 1; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e+48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQOLGNQSDAGSLAGTGGGLTPTSGSFNNSSVMGDPLIDANTGPGDSNGTRGEAGQ 60
Db 190 DIIGQOLGNQSDAGSLAGTGGGLTPTSGSFNNSSVMGDPLIDANTGPGDSNGTRGEAGQ 249
QY 61 LIIGELIDRGLQSVLAGGGGTVPNTPTGTSANGGSAQDLQDL 105

Db 250 LIGELIDRLGLOSLVAGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 2

US-08-891-254-5

/ Sequence 5, Application US/08891254

/ Patent No. 5776889

/ GENERAL INFORMATION:

/ APPLICANT: Wei, Zhong-Min

/ APPLICANT: Beer, Steven V.

/ TITLE OF INVENTION: Hypersensitive Response

/ TITLE OF INVENTION: Induced Resistance In Plants

/ NUMBER OF SEQUENCES: 9

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle

/ STREET: Clinton Square, P.O. Box 1051

/ CITY: Rochester

/ STATE: New York

/ COUNTRY: U.S.A.

/ ZIP: 14603

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patent In Release #1.0, Version #1.30

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/891,254

/ FILING DATE: 10-JUL-1997

/ CLASSIFICATION: 514

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/475,775

/ FILING DATE:

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Goldman, Michael L.

/ REGISTRATION NUMBER: 30,727

/ REFERENCE/DOCKET NUMBER: 14603/10050

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (716) 263-1304

/ TELEFAX: (716) 263-1600

/ INFORMATION FOR SEQ ID NO: 5:

/ LENGTH: 341 amino acids

/ TYPE: amino acid

/ STRANDEDNESS:

/ TOPOLOGY: linear

/ MOLECULE TYPE: protein

US-08-891-254-5

Query Match 100.0%; Score 536; DB 1; Length 341;

Best Local Similarity 100.0%; Pred. No. 3e-48;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 60

Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 249

QY 61 LIGELIDRLGLOSLVAGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 250 LIGELIDRLGLOSLVAGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 3

US-08-756-407-5

/ Sequence 5, Application US/08756407

/ Patent No. 5858786

/ GENERAL INFORMATION:

/ APPLICANT: Alan Collmer and Sheng-Yang He

/ TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene

/ NUMBER OF SEQUENCES: 6

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Yahwak & Associates

/ STREET: 25 Skytop Drive

/ CITY: Trumbull

STATE: Connecticut

COUNTRY: USA

ZIP: 06611

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: Macintosh

OPERATING SYSTEM: MS-DOS

SOFTWARE: Microsoft Word 4.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/756,407

FILING DATE: 27-NOV-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 062,024

FILING DATE: 17-MAY-1993

ATTORNEY/AGENT INFORMATION:

NAME: George M. Yahwak

REGISTRATION NUMBER: 26,824

REFERENCE/DOCKET NUMBER: CRF D-1425

TELECOMMUNICATION INFORMATION:

TELEPHONE: (203)268-1951

TELEFAX: (203)268-1951

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 341 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-756-407-5

Query Match 100.0%; Score 536; DB 2; Length 341;

Best Local Similarity 100.0%; Pred. No. 3e-48;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 60

Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 249

QY 61 LIGELIDRLGLOSLVAGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 250 LIGELIDRLGLOSLVAGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 4

US-08-819-539-5

/ Sequence 5, Application US/08819539

/ Patent No. 5859324

/ GENERAL INFORMATION:

/ APPLICANT: Wei, Zhong-Min

/ APPLICANT: Beer, Steven V.

/ TITLE OF INVENTION: Hypersensitive Response

/ TITLE OF INVENTION: Induced Resistance In Plants

/ NUMBER OF SEQUENCES: 9

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle

/ STREET: Clinton Square, P.O. Box 1051

/ CITY: Rochester

/ STATE: New York

/ COUNTRY: U.S.A.

/ ZIP: 14603

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patent In Release #1.0, Version #1.30

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/819,539

/ FILING DATE: 17-MAR-1997

/ CLASSIFICATION: 800

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/475,775

/ FILING DATE:

```

Query Match          100.0%; Score 536; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  DIIGQQLGNQSDAGSLAGTGGGLGTFFSSFNSSNVMGDPLIDANTGPGDSGNTRGEAGQ 60
Db      190 DIIGQQLGNQSDAGSLAGTGGGLGTFFSSFNSSNVMGDPLIDANTGPGDSGNTRGEAGQ 249

Qy      61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGQSAQDLQDLL 105
Db      250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGQSAQDLQDLL 294

RESULT 6
US-08-984-207-5
; Sequence 5, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/984,207
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-5

Query Match          100.0%; Score 536; DB 3; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  DIIGQQLGNQSDAGSLAGTGGGLGTFFSSFNSSNVMGDPLIDANTGPGDSGNTRGEAGQ 60
Db      190 DIIGQQLGNQSDAGSLAGTGGGLGTFFSSFNSSNVMGDPLIDANTGPGDSGNTRGEAGQ 249

Qy      61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGQSAQDLQDLL 105
Db      250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGQSAQDLQDLL 294

```

```
RESULT 7
US-09-013-587-5
; Sequence 5, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-013-587-5

Query Match 100.0%; Score 536; DB 3; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQDL 105
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQDL 294

RESULT 8
US-09-086-118-25
; Sequence 25, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
```

```
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-25

Query Match 100.0%; Score 536; DB 4; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQDL 105
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQDL 294

RESULT 9
PCT-US94-05014-5
; Sequence 5, Application PC/TUS9405014
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrp2 Gene
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05014
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1425
; TELECOMMUNICATION INFORMATION:
```


APPLICANT: Law, Marcus D
APPLICANT: Dietz, Jon M
TITLE OF INVENTION: Use of Translationally altered RNA to
TITLE OF INVENTION: Confer Resistance to Maize Dwarf Mosaic Virus and Other
TITLE OF INVENTION: Monocotyledonous Plant Viruses
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-Geigy Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/496,944
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: CGC 1814
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2763 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-496-944-2

Query Match 18.5%; Score 99; DB 3; Length 2763;
Best Local Similarity 34.8%; Pred. No. 0.15;
Matches 32; Conservative 7; Mismatches 25; Indels 28; Gaps 4;

QY 12 SDAGSLAGTGGGLGTSSFSNNSVGMGDLPLDANTGPGSGNTRGAGQLIGLIDRGILQ 71
DB 2466 SGAGSGSDTGAGTGVGTGSQARTGS-----GTGTG-SGATGGQ----- 2501
QY 72 SVLAGGGLGT-PVNTPTGT-SANGGQSAQDL 102
DB 2502 ---SGSGSGTEQVNTGSAGTNATGGQRDRVD 2530

RESULT 13
US-09-120-927-2
Sequence 2, Application US/09120927
Patent No. 6262018
GENERAL INFORMATION:
APPLICANT: Kim, Jihyun Francis
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM
TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/120,927
FILING DATE:
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/055,108
FILING DATE: 06-AUG-1977
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1581
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-120-927-2

Query Match 16.8%; Score 90; DB 3; Length 447;
Best Local Similarity 33.0%; Pred. No. 0.14;
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;

QY 8 GQQQS----DAGSLAGTGGGLG-TPSSFSNNS-SVMGDLPLDANTGPGSGNTRGAG-- 59
DB 72 GNDQTGVGNAGLNGRKGTAGTTQSDSQNNMLSEKNGNGLDQAITPDQGG--GQIGDN 129
QY 60 -----QLIGELIDRGILQSVLGGGLGTPVNTPTGT-SANGGQSAQDL 101
DB 130 PLLKAMKLIAARMGQSQDQF---GQPGTGNNSSASGTSSTSGGSPFNDL 175

RESULT 14
US-08-317-522A-3
Sequence 3, Application US/08317522A
Patent No. 5599918
GENERAL INFORMATION:
APPLICANT: Fukuda, Michiko N.
TITLE OF INVENTION: Trophinin and Trophinin-Assisting
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,522A
FILING DATE: 04-OCT-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 9991
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 674 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-317-522A-3
Query Match 16.7%; Score 89.5; DB 1; Length 674;
Best Local Similarity 33.3%; Pred. No. 0.26;

```

RESULT 15
US-08-439-818A-3
; Sequence 3, Application US/08439818A
; Patent NO. 5654145
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Michiko N.
; TITLE OF INVENTION: Trophinin and Trophinin-Assisting
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/439,818A
; FILING DATE: 12-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/317,522
; FILING DATE: 04-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 1563
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 674 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
US-08-439-818A-3
Query Match 16.7%; Score 89.5; DB 1; Length 674;
Best Local Similarity 33.3%; Pred. No. 0.26;
Matches 34; Conservative 10; Mismatches 37; Indels 21; Gaps 6;

QY 7 LGNQOQSDAGSLA---GTGGGGLGTSSFSNNSSVMGDPLIDANTGPGDSG--NTRGEAGQL 61
Db 521 LGTSAGFGGGLVTSDFGGGLGTNASP---GSTLG-----TSAGFSGGGLSTSDGFGSR 570

QY 62 IGEILDRGLQSVLAGGGLGTPTVT-----POTGTSANGGQSA 98
Db 571 PNASFDRGLSLTII-GFGSGSNSTSTGFTGEPSTSTGFSGGPS 611

```

Search completed: January 20, 2004, 14:57:59
Job time : 13.4024 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 2.36236 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_137_156

Perfect score: 99

Sequence: 1 STSQNDSTSGTDSSTSSD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5,

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/prodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/prodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/prodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/prodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	99	100.0	385	1	US-08-891-254-3
2	99	100.0	385	2	US-08-819-539-3
3	99	100.0	385	5	PCT-US93-06243-2
4	99	100.0	385	5	PCT-US96-08819-3
5	99	100.0	403	2	US-08-200-724A-2
6	99	100.0	403	2	US-09-030-270A-3
7	99	100.0	403	3	US-08-851-376A-2
8	99	100.0	403	3	US-08-984-207-3
9	99	100.0	403	3	US-09-013-587-3
10	99	100.0	403	4	US-09-086-118-23
11	57	57.6	669	4	US-09-107-532A-6532
12	50	50.5	930	4	US-08-134-001C-5314
13	48	48.5	1187	1	US-08-320-559-28
14	48	48.5	1187	3	US-08-545-860D-28
15	48	48.5	1187	5	PCT-US94-04496-28
16	48	48.5	1210	1	US-08-320-559-26
17	48	48.5	1210	3	US-08-545-860D-26
18	48	48.5	1210	5	PCT-US94-04496-26
19	47	47.5	1233	4	US-09-996-243-375
20	47	47.5	823	4	US-09-107-532A-5667
21	47	47.5	1258	2	US-08-310-912A-107
22	47	47.5	1258	3	US-09-301-085-107
23	47	47.5	1294	3	US-08-930-996A-10
24	46.5	47.0	506	2	US-08-820-170A-19
25	46.5	47.0	506	3	US-09-055-699-19
26	46.5	47.0	506	3	US-09-273-565-19
27	46.5	47.0	506	4	US-09-565-538-19

28	46.5	47.0	506	4	US-09-661-468-19	Sequence 19, Appl
29	46.5	47.0	506	4	US-09-976-165-19	Sequence 19, Appl
30	46.5	47.0	933	3	US-08-293-728-2	Sequence 2, Appl
31	46.5	47.0	933	3	US-09-421-868-2	Sequence 2, Appl
32	46	46.5	196	4	US-09-149-476-331	Sequence 331, App
33	46	46.5	277	6	5164481-2	Patent No. 5164481
34	46	46.5	1063	1	US-08-093-453B-3	Sequence 3, Appl
35	46	46.5	1063	1	US-08-127-499A-8	Sequence 8, Appl
36	46	46.5	1063	1	US-08-482-847-8	Sequence 8, Appl
37	45.5	46.0	361	3	US-09-588-256-4	Sequence 4, Appl
38	45.5	46.0	2137	4	US-09-134-001C-4463	Sequence 4463, Ap
39	45	45.5	43	4	US-07-757-022B-12	Sequence 12, Appl
40	45	45.5	59	4	US-09-071-035-424	Sequence 424, App
41	45	45.5	116	4	US-09-071-035-422	Sequence 422, App
42	45	45.5	167	2	US-08-993-228-8	Sequence 8, Appl
43	45	45.5	192	4	US-07-757-022B-90	Sequence 90, Appl
44	45	45.5	204	4	US-07-757-022B-92	Sequence 92, Appl
45	45	45.5	208	4	US-07-757-022B-132	Sequence 132, App

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5166889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clanton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-891-254-3

Query Match 100.0%; Score 99; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 STSQNDSTSGTDSSTSSD 20

```
Db      137 STSQNDSTSGTSDTSDSSD 156
|||||
RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3
Query Match 100.0%; Score 99; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSQNDSTSGTSDTSDSSD 20
|||||
Db      137 STSQNDSTSGTSDTSDSSD 156
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
```

```
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2
Query Match 100.0%; Score 99; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSQNDSTSGTSDTSDSSD 20
|||||
Db      137 STSQNDSTSGTSDTSDSSD 156
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
```

;
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 99; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDSSD 20
Db 137 STSQNDSTSGTSDSSD 156

RESULT 5

US-08-200-724A-2

; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FILING DATE: 23-FEB-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10030
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 99; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDSSD 20
Db 137 STSQNDSTSGTSDSSD 156

RESULT 6

US-09-030-270A-3

; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,270A
FILING DATE:
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/039,226
FILING DATE: 28-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1521
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 99; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDSSD 20
Db 137 STSQNDSTSGTSDSSD 156

RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,376A
FILING DATE: 05-MAY-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/200,724
FILING DATE: 23-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10035
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 8
US-08-984-207-3
Sequence 3, Application US/08984207
Patent No. 6235974
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,230
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 9
US-09-013-587-3
Sequence 3, Application US/09013587
Patent No. 6277814
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-3

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

```
RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 99; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDSSTSDSSD 20
Db 137 STSQNDSTSGTDSSTSDSSD 156

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
```

```
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
US-09-107-532A-6532

Query Match 57.6%; Score 57; DB 4; Length 669;
Best Local Similarity 63.2%; Pred. No. 2;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDSTSGTDSSTSDSSD 20
Db 534 TSQSDSTDTTSTSDSSD 552

RESULT 12
US-09-134-001C-5314
; Sequence 5314, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5314
; LENGTH: 930
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5314

Query Match 50.5%; Score 50; DB 4; Length 930;
Best Local Similarity 61.1%; Pred. No. 28;
Matches 11; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDSSTSDS 18
Db 828 SDSQSDSDSTSDSDSDS 845
```

```

; TITLE OF INVENTION:  for Detection and Treatment of Acute Leukemias.
; TITLE OF INVENTION:  Resulting from Chromosome Abnormalities in the All-1 Region
; NUMBER OF SEQUENCES:  94
; CORRESPONDENCE ADDRESS:
; ADDRESSEE:  Woodcock, Washburn, Kurtz, Mackiewicz &
; ADDRESSEE:  No. 6040140ris
; STREET:  One Liberty Place, 46th floor
; CITY:  Philadelphia
; STATE:  Pennsylvania
; COUNTRY:  USA
; ZIP:  19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE:  Floppy disk
; COMPUTER:  IBM PC compatible
; OPERATING SYSTEM:  PC-DOS/MS-DOS
; SOFTWARE:  PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:  US/08/545,860D
; FILING DATE:  07-MAR-1996
; CLASSIFICATION:  435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  PCT/US94/04496
; FILING DATE:  22-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  PCT/US92/10930
; FILING DATE:  09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/327,392
; FILING DATE:  19-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/320,559
; FILING DATE:  11-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/062,443
; FILING DATE:  14-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 07/971,094
; FILING DATE:  30-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 07/888,839
; FILING DATE:  27-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 07/805,093
; FILING DATE:  11-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME:  Deluca Esq., Mark
; REGISTRATION NUMBER:  33,229
; REFERENCE/DOCKET NUMBER:  TJU-1262
; TELECOMMUNICATION INFORMATION:
; TELEPHONE:  (215) 568-3100
; TELEFAX:  (215) 568-3439
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH:  1187 amino acids
; TYPE:  amino acid
; TOPOLOGY:  linear
; MOLECULE TYPE:  protein
; US-08-545-860D-28

Query Match      48.5%; Score 48; DB 3; Length 1187;
Best Local Similarity 55.6%; Pred. NO. 72;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTDS 18
      |:|:|:|:|:|:|:|:|
DB      443 SSSAESESTSDSDS 460

RESULT 15
PCT-US94-04496-28
; Sequence 28, Application PC/TUS9404496
; GENERAL INFORMATION:
; APPLICANT:  Croce, Carlo

```

Search completed: January 20, 2004, 14:57:56
Job time : 3.36236 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.55956 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_105_168

Perfect score: 321

Sequence: 1 MLGSLNTLGSKGNNTTT.....DSTSDSDPMQQLKMFSEI 64

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/iaa/PTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	321	100.0	385	1	US-08-891-254-3
2	321	100.0	385	2	US-08-819-539-3
3	321	100.0	385	5	PCT-US93-06243-2
4	321	100.0	385	5	PCT-US96-08819-3
5	321	100.0	403	2	US-08-200-724A-2
6	321	100.0	403	2	US-09-030-270A-3
7	321	100.0	403	3	US-08-851-376A-2
8	321	100.0	403	3	US-08-984-207-3
9	321	100.0	403	3	US-09-013-587-3
10	321	100.0	403	4	US-09-086-118-23
11	83	25.9	669	4	US-09-107-532A-6532
12	81	25.2	465	4	US-09-328-352-6951
13	77	24.0	344	1	US-08-891-254-7
14	77	24.0	344	2	US-08-819-539-7
15	77	24.0	344	2	US-09-030-270A-7
16	77	24.0	344	3	US-08-984-207-7
17	77	24.0	344	3	US-09-013-587-7
18	77	24.0	344	4	US-09-086-118-27
19	77	24.0	344	5	PCT-US96-08819-7
20	70.5	22.0	683	4	US-09-620-412C-357
21	70.5	22.0	683	4	US-09-598-419-357
22	70.5	22.0	821	4	US-09-556-877-195
23	70.5	22.0	821	4	US-09-620-412C-195
24	70.5	22.0	821	4	US-09-598-419-195
25	70.5	22.0	1776	4	US-09-556-877-179
26	70.5	22.0	1776	4	US-09-620-412C-179
27	70.5	22.0	1776	4	US-09-598-419-179

28	69	21.5	444	1	US-07-881-075-3	Sequence 3, Appli
29	69	21.5	444	1	US-08-120-827-3	Sequence 3, Appli
30	69	21.5	444	1	US-08-478-675-3	Sequence 3, Appli
31	68.5	21.3	763	2	US-08-677-862-2	Sequence 2, Appli
32	68.5	21.3	763	2	US-09-252-571-2	Sequence 2, Appli
33	68.5	21.3	763	3	US-09-434-065-2	Sequence 2, Appli
34	68.5	21.3	763	3	US-08-789-275-4	Sequence 5, Appli
35	68.5	21.3	763	3	US-08-789-275-5	Sequence 4, Appli
36	66.5	20.7	933	1	US-08-178-477B-16	Sequence 16, Appli
37	66.5	20.7	933	3	US-08-293-728-2	Sequence 2, Appli
38	66.5	20.7	933	3	US-09-421-868-2	Sequence 2, Appli
39	66	20.6	516	4	US-09-252-991A-31898	Sequence 31898, A
40	65	20.2	947	4	US-09-418-780A-1	Sequence 1, Appli
41	64.5	20.1	2137	4	US-09-134-001C-4463	Sequence 4463, Ap
42	64	19.9	283	4	US-09-198-452A-424	Sequence 424, App
43	63	19.6	145	3	US-08-808-599A-41	Sequence 41, Appli
44	63	19.6	975	4	US-09-328-352-4764	Sequence 4764, Ap
45	63	19.6	3060	2	US-08-487-826B-14	Sequence 14, Appli

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-891-254-3

Query Match 100.0%; Score 321; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatch 0; Indels 0; Gaps 0;
QY 1 MLGSLNTLGSKGNNTTTNSPLDQALGINSQNDSTGTDSTSDSDPMQQLKMK 60

```
Db 105 MLGGSINTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3

Query Match 100.0%; Score 321; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 60
Db 105 MLGGSINTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
```

```
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2

Query Match 100.0%; Score 321; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 60
Db 105 MLGGSINTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
```

```
/
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/475,775
/ FILING DATE: 07-JUN-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/10051
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 385 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 321; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 60
Db 105 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 5
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
/
```

```
/
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 321; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 60
Db 105 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 6
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 321; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 60
Db 105 MLGGSLLTIGSKGNNTTTNSPLDQALGINSTQNDSTSGTDSSTSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168
```

Db 165 FSEI 168

RESULT 7

US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 321; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 60
Db 105 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 8

US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

Query Match 100.0%; Score 321; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 60
Db 105 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 9

US-09-013-587-3
; Sequence 3, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

Query Match 100.0%; Score 321; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 60
Db 105 MLGSSLNTLGSKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

```
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 60/036,048
; APPLICATION NUMBER: 27-JAN-1997
; FILING DATE: 27-JAN-1997
; NAME: Goldman, Michael L.
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-013-587-3

Query Match      100.0%; Score 321; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 60
Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
```

```
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-23

Query Match      100.0%; Score 321; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 60
Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A. Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 893-5007
; TELEFAX: (781) 893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
; US-09-107-532A-6532
```

Query Match	24.0%	Score 77;	DB 2;	Length 344;
Best Local Similarity	30.2%	Pred. No. 0.18;		

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 10.985 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_76_168

Perfect score: 475
Sequence: 1 MGGGGLGGGLGGGGGLG.....DSTSDSDPMQQLKMFSEI 93

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/1/iaa/5A COMB.pep.*
2: /cgn2_6/prodata/1/iaa/5B COMB.pep.*
3: /cgn2_6/prodata/1/iaa/6A COMB.pep.*
4: /cgn2_6/prodata/1/iaa/6B COMB.pep.*
5: /cgn2_6/prodata/1/iaa/PTUS COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	475	100.0	385	1	US-08-891-254-3
2	475	100.0	385	2	US-08-819-539-3
3	475	100.0	385	5	PCT-US93-06243-2
4	475	100.0	385	5	PCT-US96-08819-3
5	475	100.0	403	2	US-08-200-724A-2
6	475	100.0	403	2	US-09-030-270A-3
7	475	100.0	403	3	US-08-851-376A-2
8	475	100.0	403	3	US-08-984-207-3
9	475	100.0	403	3	US-09-013-587-3
10	475	100.0	403	4	US-09-086-118-23
11	104	21.9	344	1	US-08-891-254-7
12	104	21.9	344	2	US-08-819-539-7
13	104	21.9	344	2	US-09-030-270A-7
14	104	21.9	344	3	US-08-984-207-7
15	104	21.9	344	3	US-09-013-587-7
16	104	21.9	344	4	US-09-086-118-27
17	104	21.9	344	5	PCT-US96-08819-7
18	102.5	21.6	647	2	US-08-770-761A-8
19	102.5	21.6	705	2	US-08-770-761A-7
20	101.5	21.4	674	1	US-08-317-522A-3
21	101.5	21.4	674	1	US-08-439-818A-3
22	101.5	21.4	674	2	US-08-751-965-3
23	101.5	21.4	674	2	US-08-738-975-3
24	101.5	21.4	674	2	US-08-728-626-3
25	101.5	21.4	674	3	US-08-808-599A-3
26	101.5	21.4	749	1	US-08-317-522A-2
27	101.5	21.4	749	1	US-08-439-818A-2

28	101.5	21.4	749	2	US-08-751-965-2	Sequence 2, Appli
29	101.5	21.4	749	2	US-08-738-975-2	Sequence 2, Appli
30	101.5	21.4	749	2	US-08-728-626-2	Sequence 2, Appli
31	101.5	21.4	749	3	US-08-808-599A-2	Sequence 2, Appli
32	100	21.1	738	3	US-08-864-038A-3	Sequence 3, Appli
33	97.5	20.5	975	4	US-09-328-352-4764	Sequence 4764, Ap
34	96.5	20.3	141	4	US-09-252-991A-23427	Sequence 23427, A
35	96.5	20.3	268	3	US-08-835-099A-9	Sequence 9, Appli
36	96.5	20.3	268	3	US-09-157-349-9	Sequence 809, Ap
37	96	20.2	126	4	US-09-328-352-8009	Sequence 5, Appli
38	96	20.2	588	1	US-08-391-615-5	Sequence 7, Appli
39	95.5	20.1	266	3	US-09-032-523-7	Sequence 13, Appli
40	93.5	19.7	116	3	US-08-963-168C-13	Sequence 6, Appli
41	93.5	19.7	136	3	US-08-963-168C-6	Sequence 24, Appli
42	92.5	19.5	1160	3	US-08-808-599A-24	Sequence 22914, A
43	92	19.4	159	4	US-09-252-991A-22914	Sequence 7802, Ap
44	91.5	19.3	199	4	US-09-328-352-7802	Sequence 27661, A
45	91.5	19.3	208	4	US-09-252-991A-27661	

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-3

Query Match 100.0%; Score 475; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGGGGLGGGLGGGGGLGSLNMLGSLNLTGSKGNNTTTSTNSPLDQALGI 60

Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

RESULT 2

US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match 100.0%; Score 475; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

RESULT 3

PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants

; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match 100.0%; Score 475; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

RESULT 4

PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 475; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 5
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid

Query Match 100.0%; Score 475; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 6
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 28-FEB-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 475; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 475; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168
```

Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A

; Patent No. 6174717

; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Bauer, David W.

; APPLICANT: Collmer, Alan

; APPLICANT: He, Sheng-Yang

; APPLICANT: Laby, Ron

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

; TITLE OF INVENTION: IN PLANTS

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon Peabody LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: NY

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/851,376A

; FILING DATE: 05-MAY-1997

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/200,724

; FILING DATE: 23-FEB-1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/10035

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 475; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 9.7e-41;

Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 60

Db 76 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93

Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

RESULT 8

US-08-984-207-3

; Sequence 3, Application US/08984207

; Patent No. 6235974

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

RESULT 9

US-09-013-587-3

; Sequence 3, Application US/09013587

; Patent No. 6277814

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED

; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: P.O. Box 1051, Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/984,207

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/033,230

; FILING DATE: 05-DEC-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1201

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-984-207-3

Query Match 100.0%; Score 475; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 9.7e-41;

Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 60

Db 76 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93

Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-013-587-3

Query Match      100.0%; Score 475; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hartgrave, Devans & Doyle LLP
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304

```

```

; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-23

Query Match      100.0%; Score 475; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 11
US-08-891-254-7
; Sequence 7, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hartgrave, Devans & Doyle
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-7

Query Match      21.9%; Score 104; DB 1; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

QY 2 GGGGLG-GGLGNGLGGGGGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60

```

Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAADV 228
QY 61 NSTSQNDSTSGTSDTSDSDPQMQLKMFSEI 93
Db 229 NGANGADD---GSEDOGGLTGVQLKMKILNAL 258

RESULT 12
US-08-819-539-7
; Sequence 7, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-7

Query Match 21.9%; Score 104; DB 2; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;
QY 2 GGLG-GGLGNGLGGGGLGEGLSNALNDMLGSLNTLGSKGNNNTTSTNSPLDQALGI 60
Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAADV 228
QY 61 NSTSQNDSTSGTSDTSDSDPQMQLKMFSEI 93
Db 229 NGANGADD---GSEDOGGLTGVQLKMKILNAL 258

RESULT 13
US-09-030-270A-7
; Sequence 7, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-7

Query Match 21.9%; Score 104; DB 2; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;
QY 2 GGLG-GGLGNGLGGGGLGEGLSNALNDMLGSLNTLGSKGNNNTTSTNSPLDQALGI 60
Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAADV 228
QY 61 NSTSQNDSTSGTSDTSDSDPQMQLKMFSEI 93
Db 229 NGANGADD---GSEDOGGLTGVQLKMKILNAL 258

RESULT 14
US-08-984-207-7
; Sequence 7, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA: US 60/033,230
APPLICATION NUMBER: 30,727
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-7

Query Match 21.9%; Score 104; DB 3; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;
QY 2 GGGLG-GGLGNGLGSGGLGEGLSNALNDMLGGSNTLTGSKGNNTTSTNSPLDQALGI 60
Db 175 GGGAGAGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGNGVNGNQANGPQNVAGDV 228
QY 61 NSTSQNDSTSTGTDSTSDSDPMQQLKMFSEI 93
Db 229 NGANGADD---GSEDQGGLTGVQLKMKILNAL 258

RESULT 15
US-09-013-587-7
Sequence 7, Application US/09013587
Patent No. 627814
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-7
Query Match 21.9%; Score 104; DB 3; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;
QY 2 GGGLG-GGLGNGLGSGGLGEGLSNALNDMLGGSNTLTGSKGNNTTSTNSPLDQALGI 60
Db 175 GGGAGAGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGNGVNGNQANGPQNVAGDV 228
QY 61 NSTSQNDSTSTGTDSTSDSDPMQQLKMFSEI 93
Db 229 NGANGADD---GSEDQGGLTGVQLKMKILNAL 258
Search completed: January 20, 2004, 14:57:55
Job time : 11.985 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 3.54354 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_121_150

Perfect score: 150

Sequence: 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/iaa/PTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/iaa/backfileel.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	150	100.0	385	1	US-08-891-254-3
2	150	100.0	385	2	US-08-819-539-3
3	150	100.0	385	5	PCT-US93-06243-2
4	150	100.0	385	5	PCT-US96-08819-3
5	150	100.0	403	2	US-08-300-724A-2
6	150	100.0	403	2	US-09-030-270A-3
7	150	100.0	403	3	US-08-851-376A-2
8	150	100.0	403	3	US-08-984-207-3
9	150	100.0	403	3	US-09-013-587-3
10	150	100.0	403	4	US-09-086-118-23
11	55.5	37.0	1402	4	US-09-125-635-12
12	53	35.3	444	1	US-07-881-075-3
13	53	35.3	444	1	US-08-120-827-3
14	53	35.3	444	1	US-08-478-675-3
15	52	34.7	683	4	US-09-620-412C-357
16	52	34.7	683	4	US-09-598-419-357
17	52	34.7	821	4	US-09-556-877-195
18	52	34.7	821	4	US-09-620-412C-195
19	52	34.7	821	4	US-09-598-419-195
20	52	34.7	1776	4	US-09-556-877-179
21	52	34.7	1776	4	US-09-620-412C-179
22	52	34.7	1776	4	US-09-598-419-179
23	51.5	34.3	458	3	US-09-352-159-9
24	51.5	34.3	458	3	US-09-352-168-9
25	49.5	33.0	951	4	US-09-125-635-8
26	49.5	33.0	1420	4	US-09-125-635-4
27	49	32.7	1481	2	US-08-616-844-40

28	49	32.7	1481	2	US-08-599-654-40	Sequence 40, Appl
29	49	32.7	1481	3	US-08-944-868A-40	Sequence 40, Appl
30	49	32.7	1481	3	US-08-944-423A-40	Sequence 40, Appl
31	49	32.7	1481	3	US-08-944-496-40	Sequence 40, Appl
32	48.5	32.3	669	4	US-09-107-532A-6532	Sequence 6532, Ap
33	48	32.0	553	4	US-09-242-913B-13	Sequence 13, Appl
34	48	32.0	697	4	US-08-816-177-2	Sequence 2, Appl
35	48	32.0	701	4	US-09-134-001C-3327	Sequence 3327, Ap
36	47	31.3	50	1	US-08-178-477B-16	Sequence 16, Appl
37	47	31.3	145	3	US-08-808-599A-41	Sequence 41, Appl
38	47	31.3	933	3	US-08-293-728-2	Sequence 2, Appl
39	47	31.3	933	3	US-09-421-868-2	Sequence 2, Appl
40	46.5	31.0	2137	4	US-09-134-001C-4463	Sequence 4463, Ap
41	46	30.7	600	4	US-09-134-001C-5293	Sequence 5293, Ap
42	45.5	30.3	232	4	US-09-252-991A-29073	Sequence 29073, A
43	45.5	30.3	245	4	US-09-252-991A-22586	Sequence 22586, A
44	45.5	30.3	685	3	US-08-872-855-2	Sequence 2, Appl
45	45.5	30.3	1005	4	US-09-206-942-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-3

Query Match 100.0%; Score 150; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30

```
Db      121 TTSTNSPLDQALGINSTQNDSDTSGTDS 150
|||||
RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3
Query Match 100.0%; Score 150; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTNSPLDQALGINSTQNDSDTSGTDS 30
|||||
Db      121 TTSTNSPLDQALGINSTQNDSDTSGTDS 150
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collier, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
```

```
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2
Query Match 100.0%; Score 150; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTNSPLDQALGINSTQNDSDTSGTDS 30
|||||
Db      121 TTSTNSPLDQALGINSTQNDSDTSGTDS 150
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
```

; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 150; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 5

US-08-200-724A-2

; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 150; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 6

US-09-030-270A-3

; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 150; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,376A
FILING DATE: 05-MAY-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/200,724
FILING DATE: 23-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 150; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
DB 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 8
US-08-984-207-3
Sequence 3, Application US/08984207
Patent No. 6235974
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,230
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 150; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
DB 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 9
US-09-013-587-3
Sequence 3, Application US/09013587
Patent No. 6277814
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-3

Query Match 100.0%; Score 150; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDDSTSGTDS 30
DB 121 TTSTTNSPLDQALGINSTQNDDSTSGTDS 150

RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23
Query Match 100.0%; Score 150; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTSTNSPLDQALGINSTQNDSDSTGSDS 30
Db 121 TTSTNSPLDQALGINSTQNDSDSTGSDS 150
RESULT 11
US-09-125-635-12
; Sequence 12, Application US/09125635
; Patent No. 6562589
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA represented by THE SE
; TITLE OF INVENTION: AIB1, A novel steroid receptor co-activator
; FILE REFERENCE: 49944
; CURRENT APPLICATION NUMBER: US/09/125,635
; CURRENT FILING DATE: 1998-08-21
; PRIOR APPLICATION NUMBER: 60/049,728
; PRIOR FILING DATE: 1997-06-17
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 1402
; TYPE: PRT

; ORGANISM: Mus musculus
US-09-125-635-12
Query Match 37.0%; Score 55.5; DB 4; Length 1402;
Best Local Similarity 44.1%; Pred. No. 16;
Matches 15; Conservative 4; Mismatches 10; Indels 5; Gaps 1;
QY 2 TTSTNSPL-----DQALGINSTQNDSDSTGSDS 30
Db 627 SSLTNSPLDPNCKDSSVSVTSPSGVSSSTGTVS 660
RESULT 12
US-07-881-075-3
; Sequence 3, Application US/07881075
; Patent No. 5444149
; GENERAL INFORMATION:
; APPLICANT: KEENE, JACK D.
; APPLICANT: KING, PETER H.
; APPLICANT: LEVINE, TODD
; TITLE OF INVENTION: METHODS AND COMPOSITIONS USEFUL IN THE
; TITLE OF INVENTION: RECOGNITION, BINDING AND EXPRESSION OF RIBONUCLEIC ACIDS
; TITLE OF INVENTION: INVOLVED IN CELL GROWTH, NEOPLASIA AND IMMUNOREGULATION
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,075
; FILING DATE: 19920511
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5444149man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 714-154-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-07-881-075-3
Query Match 35.3%; Score 53; DB 1; Length 444;
Best Local Similarity 35.7%; Pred. No. 9;
Matches 10; Conservative 9; Mismatches 9; Indels 0; Gaps 0;
QY 3 STTNSPLDQALGINSTQNDSDSTGSDS 30
Db 63 STTNAVGQATANNAAASNNNNNNNTNN 90
RESULT 13
US-08-120-827-3
; Sequence 3, Application US/08120827
; Patent No. 5525495
; GENERAL INFORMATION:
; APPLICANT: KEENE, JACK D.
; APPLICANT: KING, PETER H.

Search completed: January 20, 2004, 14:57:54
Job time : 3.54354 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 3.54354 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_150_179

Perfect score: 151
Sequence: 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/prodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/prodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/prodata/1/iaa/PCUS_COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	151	100.0	385	1 US-08-891-254-3	Sequence 3, Appli
2	151	100.0	385	2 US-08-819-539-3	Sequence 3, Appli
3	151	100.0	385	5 PCT-US93-06243-2	Sequence 2, Appli
4	151	100.0	385	5 PCT-US96-08819-3	Sequence 3, Appli
5	151	100.0	403	2 US-08-200-724A-2	Sequence 2, Appli
6	151	100.0	403	2 US-09-030-270A-3	Sequence 3, Appli
7	151	100.0	403	3 US-08-851-376A-2	Sequence 2, Appli
8	151	100.0	403	3 US-08-984-207-3	Sequence 3, Appli
9	151	100.0	403	3 US-09-013-587-3	Sequence 3, Appli
10	151	100.0	403	4 US-09-086-118-23	Sequence 23, Appli
11	53.5	35.4	754	3 US-09-214-564A-2	Sequence 2, Appli
12	48	31.8	283	4 US-09-198-452A-24	Sequence 424, App
13	46.5	30.8	257	4 US-09-252-991A-27607	Sequence 27607, A
14	46	30.5	690	4 US-09-252-991A-29429	Sequence 29429, A
15	45	29.8	230	4 US-09-252-991A-22064	Sequence 22064, A
16	45	29.8	977	2 US-08-673-789-8	Sequence 8, Appli
17	44	29.1	102	1 US-08-340-203A-12	Sequence 12, Appli
18	44	29.1	102	2 US-08-452-427-12	Sequence 12, Appli
19	44	29.1	102	3 US-09-085-407-12	Sequence 12, Appli
20	44	29.1	103	2 US-08-553-541B-3	Sequence 3, Appli
21	44	29.1	103	3 US-09-268-202-3	Sequence 3, Appli
22	44	29.1	105	4 US-07-145-002B-21	Sequence 21, Appli
23	44	29.1	417	1 US-08-553-703A-2	Sequence 2, Appli
24	44	29.1	417	2 US-09-006-021-2	Sequence 2, Appli
25	43.5	28.8	328	3 US-09-225-244-2	Sequence 2, Appli
26	43.5	28.8	328	3 US-09-417-242-2	Sequence 2, Appli
27	43	28.5	206	4 US-09-328-352-5572	Sequence 5572, Ap

28	43	28.5	338	4	US-09-252-991A-26745	Sequence 26745, A
29	43	28.5	410	4	US-09-252-991A-28759	Sequence 28759, A
30	43	28.5	478	4	US-09-252-991A-32557	Sequence 32557, A
31	43	28.5	761	4	US-09-625-188-14	Sequence 14, Appli
32	43	28.5	794	4	US-09-252-991A-31824	Sequence 31824, A
33	43	28.5	947	4	US-09-418-780A-1	Sequence 1, Appli
34	43	28.5	1133	4	US-09-252-991A-32131	Sequence 32131, A
35	42.5	28.1	315	4	US-09-107-532A-6631	Sequence 6631, Ap
36	42.5	28.1	348	4	US-09-252-991A-30224	Sequence 30224, A
37	42.5	28.1	532	4	US-09-655-270A-3	Sequence 3, Appli
38	42.5	28.1	532	4	US-09-651-941-3	Sequence 3, Appli
39	42.5	28.1	532	4	US-09-955-597-3	Sequence 3, Appli
40	42	27.8	99	4	US-09-107-532A-4727	Sequence 4727, Ap
41	42	27.8	234	4	US-09-328-352-4986	Sequence 4986, Ap
42	42	27.8	292	1	US-08-378-761A-81	Sequence 81, Appli
43	42	27.8	292	1	US-08-485-286-81	Sequence 81, Appli
44	42	27.8	344	1	US-08-891-254-7	Sequence 7, Appli
45	42	27.8	344	2	US-08-819-539-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-3

Query Match 100.0%; Score 151; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30

```
Db      150 STSDSDPMQQLMKFSEIMQSLFGDQDG 179
|||||
RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3

Query Match      100.0%; Score 151; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSDSDPMQQLMKFSEIMQSLFGDQDG 30
Db      150 STSDSDPMQQLMKFSEIMQSLFGDQDG 179
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collier, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
```

```
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2

Query Match      100.0%; Score 151; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSDSDPMQQLMKFSEIMQSLFGDQDG 30
Db      150 STSDSDPMQQLMKFSEIMQSLFGDQDG 179
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
```


LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 151; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
|||
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 5

US-08-200-724A-2
Sequence 2, Application US/08200724A

Patent No. 5849868

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min

APPLICANT: Bauer, David W.

APPLICANT: Beer, Steven V.

APPLICANT: Collmer, Alan

APPLICANT: He, Sheng-Yang

APPLICANT: Laby, Ron J.

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

TITLE OF INVENTION: IN PLANTS

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hatgrave, Devans & Doyle

STREET: Clinton Square

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/200,724A

FILING DATE: 23-FEB-1994

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/10030

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 151; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
|||
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 6

US-09-030-270A-3

Sequence 3, Application US/09030270A
Patent No. 5977060
GENERAL INFORMATION:
APPLICANT: Zitter, Thomas A.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: INSECT CONTROL WITH A
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hatgrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/030,270A

FILING DATE:

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/039,226

FILING DATE: 28-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1521

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 151; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30
|||
Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 7

US-08-851-376A-2

Sequence 2, Application US/08851376A

Patent No. 6174717

GENERAL INFORMATION:

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

APPLICANT: Bauer, David W.

APPLICANT: Collmer, Alan

APPLICANT: He, Sheng-Yang

APPLICANT: Laby, Ron

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

TITLE OF INVENTION: IN PLANTS

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon Peabody LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: NY

COUNTRY: U.S.A.

ZIP: 14603

```
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/851,376A
/ FILING DATE: 05-MAY-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/200,724
/ FILING DATE: 23-FEB-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/10035
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-08-851-376A-2

Query Match 100.0%; Score 151; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
DB 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 8
US-08-984-207-3
/ Sequence 3, Application US/08984207
/ Patent No. 6235974
/ GENERAL INFORMATION:
/ APPLICANT: Qiu, Dewen
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
/ NUMBER OF SEQUENCES: 10
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
/ STREET: P.O. Box 1051, Clinton Square
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/984,207
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/033,230
/ FILING DATE: 05-DEC-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1201
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
```

```
/
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-984-207-3

Query Match 100.0%; Score 151; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
DB 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 9
US-09-013-587-3
/ Sequence 3, Application US/09013587
/ Patent No. 6277814
/ GENERAL INFORMATION:
/ APPLICANT: Qiu, Dewen
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
/ NUMBER OF SEQUENCES: 10
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
/ STREET: Clinton Square, P.O. Box 1051
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/013,587
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/036,048
/ FILING DATE: 27-JAN-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1501
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-013-587-3

Query Match 100.0%; Score 151; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
DB 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179
```

RESULT 10

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 151; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.9e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGDG 179

RESULT 11

US-09-214-564A-2
; Sequence 2, Application US/09214564A
; Patent No. 6150515
; GENERAL INFORMATION:
; APPLICANT: Sharp, Phillip A.
; APPLICANT: Zhou, Qiang
; TITLE OF INVENTION: Tat-SF: Cofactor For Stimulation Of Transcriptional
; TITLE OF INVENTION: Elongation By HIV-1 TAT
; FILE REFERENCE: M0656/7042
; CURRENT APPLICATION NUMBER: US/09/214,564A
; CURRENT FILING DATE: 1999-08-18
; PRIOR APPLICATION NUMBER: US 60/021,218
; PRIOR FILING DATE: 1996-07-03
; PRIOR APPLICATION NUMBER: US 60/033,152
; PRIOR FILING DATE: 1996-12-13
; PRIOR APPLICATION NUMBER: PCT/US97/11713

; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 754
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-214-564A-2

Query Match 35.4%; Score 53.5; DB 3; Length 754;
Best Local Similarity 40.7%; Pred. No. 5.4;
Matches 11; Conservative 5; Mismatches 6; Indels 5; Gaps 1;
QY 4 DSSDPMQQLKMFSEIMQSLFGDGDG 30
Db 7 DGNDEFDEQLR-----MQELYDGDG 28

RESULT 12

US-09-198-452A-424
; Sequence 424, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffaib, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 424
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-424

Query Match 31.8%; Score 48; DB 4; Length 283;
Best Local Similarity 42.3%; Pred. No. 12;
Matches 11; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

QY 2 TSDSDPMQQLKMFSEIMQSLFGDG 27
Db 152 SSVSSEQLQQLLSVLSQMTTSQSGS 177

RESULT 13

US-09-252-991A-27607
; Sequence 27607, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27607
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27607

Query Match 30.8%; Score 46.5; DB 4; Length 257;
Best Local Similarity 43.5%; Pred. No. 18;
Matches 10; Conservative 5; Mismatches 5; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSLFGDGD 29

Db 60 DPLENLLDLF---LQDLSGEGFD 79
||::||:|:|:|:|:|:|:|:|:|

RESULT 14
US-09-252-991A-29429
; Sequence 29429, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29429
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29429

Query Match 30.5%; Score 46; DB 4; Length 690;
Best Local Similarity 39.1%; Pred. No. 71;
Matches 9; Conservative 7; Mismatches 7; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSL 23
|||||:|:|:|:|:|:|:|:|:|
Db 663 SASDSSDALPPTAVFTDVRS 685

RESULT 15
US-09-252-991A-22064
; Sequence 22064, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22064
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22064

Query Match 29.8%; Score 45; DB 4; Length 230;
Best Local Similarity 43.5%; Pred. No. 27;
Matches 10; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSL 23
|:|:|:|:|:|:|:|:|:|
Db 95 SGCDGSDPLRSYDLCLEAVQSL 117

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 Search time 26.5916 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-31_COPY_190_294

Perfect score: 536
Sequence: 1 DIHQOQLGNQSGDAGSLAGT.....POTGTSANGSQSAQDLQL 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	341	9	US-09-086-118-25
2	536	100.0	341	9	US-09-835-684-7
3	536	100.0	341	9	US-09-880-371-7
4	536	100.0	341	9	US-09-879-248-11
5	536	100.0	341	9	US-09-770-693-5
6	536	100.0	341	12	US-10-387-806-25
7	536	100.0	341	15	US-10-034-158-5
8	536	100.0	341	15	US-10-010-390-7
9	103	19.2	19725	12	US-10-084-846A-4
10	90	16.8	447	9	US-09-835-684-5
11	90	16.8	447	9	US-09-880-371-5
12	90	16.8	447	9	US-09-879-248-6
13	90	16.8	447	15	US-10-010-390-5
14	89.5	16.7	805	12	US-10-029-386-34042
15	89	16.6	256	11	US-09-820-843A-18

16	89	16.6	457	15	US-10-156-761-10667	Sequence 10667, A
17	87	16.2	1079	11	US-09-820-843A-20	Sequence 20, Appl
18	85.5	16.0	579	14	US-10-108-605-215	Sequence 215, Appl
19	85	15.9	578	12	US-10-032-585-7793	Sequence 7793, Ap
20	83	15.5	424	9	US-09-835-684-9	Sequence 9, Appli
21	83	15.5	424	9	US-09-880-371-9	Sequence 9, Appli
22	83	15.5	424	9	US-09-879-248-14	Sequence 14, Appl
23	83	15.5	424	15	US-10-010-390-9	Sequence 9, Appli
24	83	15.5	460	12	US-10-084-843-184	Sequence 184, App
25	83	15.5	460	12	US-10-193-002-179	Sequence 179, App
26	81.5	15.2	479	10	US-09-918-951-3	Sequence 3, Appli
27	81.5	15.2	484	11	US-09-820-843A-19	Sequence 19, Appl
28	81.5	15.2	575	12	US-10-032-585-7158	Sequence 7158, Ap
29	81.5	15.2	653	12	US-10-369-493-5789	Sequence 5789, Ap
30	81	15.1	436	9	US-09-815-243-4881	Sequence 4881, Ap
31	81	15.1	438	9	US-09-815-243-10501	Sequence 10501, A
32	81	15.1	442	11	US-09-934-455-268	Sequence 268, App
33	81	15.1	444	9	US-09-792-420-5	Sequence 5, Appli
34	81	15.1	503	9	US-09-737-178-52	Sequence 52, Appl
35	81	15.1	503	10	US-09-286-488-52	Sequence 52, Appl
36	81	15.1	503	11	US-09-853-079-52	Sequence 52, Appl
37	81	15.1	666	9	US-09-737-178-85	Sequence 85, Appl
38	81	15.1	666	11	US-09-853-079-85	Sequence 85, Appl
39	81	15.1	677	9	US-09-737-178-144	Sequence 144, App
40	81	15.1	677	11	US-09-853-079-144	Sequence 144, App
41	81	15.1	1132	9	US-09-737-178-87	Sequence 87, Appl
42	81	15.1	1132	11	US-09-853-079-87	Sequence 87, Appl
43	80.5	15.0	1569	12	US-10-287-274-312	Sequence 312, App
44	80	14.9	344	9	US-09-086-118-27	Sequence 27, Appl
45	80	14.9	344	9	US-09-835-684-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1

US-09-086-118-25
; Sequence 25, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-25

Query Match 100.0%; Score 536; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
DB 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 105
DB 250 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 294

RESULT 2

US-09-835-684-7
; Sequence 7, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-835-684-7

Query Match 100.0%; Score 536; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
DB 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 105
DB 250 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 294

RESULT 3

US-09-880-371-7
; Sequence 7, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-880-371-7

Query Match 100.0%; Score 536; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
DB 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 105
DB 250 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 294

RESULT 4

US-09-879-248-11
; Sequence 11, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Pan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-879-248-11

Query Match 100.0%; Score 536; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
DB 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 105
DB 250 LIGELIDRLGSLVLAGGGLGTPVNTPTGTTSANGGSAQDLQL 294

RESULT 5

US-09-770-693-5
; Sequence 5, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1

```
; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-770-693-5

Query Match      100.0%; Score 536; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 6
US-10-387-806-25
; Sequence 25, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-387-806-25

Query Match      100.0%; Score 536; DB 12; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 7
US-10-034-158-5
; Sequence 5, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27

; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-034-158-5

Query Match      100.0%; Score 536; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 8
US-10-010-390-7
; Sequence 7, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-010-390-7

Query Match      100.0%; Score 536; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPDLIDANTGPGDSGNTRGEAGQ 249
QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9
US-10-084-846A-4
; Sequence 4, Application US/10084846A
; Publication No. US20040006026A1
; GENERAL INFORMATION:
; APPLICANT: WEITNAUER, GABRIELE
; APPLICANT: MUHLENWEG, AGNES
; APPLICANT: TREFFZER, AXEL
; APPLICANT: BECHTHOLD, ANDREAS
; TITLE OF INVENTION: AVILAMYCIN DERIVATIVES
; FILE REFERENCE: 1974-005
; CURRENT APPLICATION NUMBER: US/10/084,846A
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: PCT/EP01/09815
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: DE 101 09 166.4
```

; PRIOR FILING DATE: 2001-02-25
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
; LENGTH: 19725
; TYPE: PRT
; ORGANISM: Streptomyces viridochromogenes
; FEATURE:
; OTHER INFORMATION: Protein 2: amino acid sequence encoded by coding strand 1.
; OTHER INFORMATION: Start codon: gat, Start position: nucleotide 2.
US-10-084-846A-4

Query Match 19.2%; Score 103; DB 12; Length 19725;
Best Local Similarity 29.4%; Pred. No. 3.7;
Matches 32; Conservative 15; Mismatches 44; Indels 18; Gaps 2;
QY 4 GQQLGNQSDAGSLAGTGGGLGTPSSFNNSVGMGPLIDANTGPGDSGNVT-----54
DB 3941 GPHLGSQDSQRVGLDGGGAVCHPEALHLLADVLDPLAAEVELAGDAGGALTCGDAFDD 4000
QY 55 -----RGAGOLI--GELIDRGLQSLVLAGGGLGTPVNTPTGTSGANG 94
DB 4001 LGVAGRGCGGSHLVPGRVLRGVSAGAGPGTGGLLCTQHSFTSSG 4049

RESULT 10
US-09-835-684-5
; Sequence 5, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-5

Query Match 16.8%; Score 90; DB 9; Length 447;
Best Local Similarity 33.0%; Pred. No. 0.78;
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;
QY 8 GNOQS-----DAGSLAGTGGGLG-TPSSFSNNS-SVMGDPPLIDANTGPGDSGNTRGAG--59
DB 72 GNDQTTGVGNAGLNGRKGTAGTTTQSDSQNNLSENGNGLDQAITPDGQGG--GOIGDN 129
QY 60 -----QLIGELIDRGLQSLVLAGGGLGTPVNTPTGTSGANGQSAQDL 101
DB 130 PLLKAMKLKIARMMDGQSDQF---GQPGTGNNSSASSTSSSGSPFNDL 175

RESULT 11
US-09-880-371-5
; Sequence 5, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371

; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-5

Query Match 16.8%; Score 90; DB 9; Length 447;
Best Local Similarity 33.0%; Pred. No. 0.78;
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;
QY 8 GNOQS-----DAGSLAGTGGGLG-TPSSFSNNS-SVMGDPPLIDANTGPGDSGNTRGAG--59
DB 72 GNDQTTGVGNAGLNGRKGTAGTTTQSDSQNNLSENGNGLDQAITPDGQGG--GOIGDN 129
QY 60 -----QLIGELIDRGLQSLVLAGGGLGTPVNTPTGTSGANGQSAQDL 101
DB 130 PLLKAMKLKIARMMDGQSDQF---GQPGTGNNSSASSTSSSGSPFNDL 175

RESULT 12
US-09-879-248-6
; Sequence 6, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; PRIOR FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-6

Query Match 16.8%; Score 90; DB 9; Length 447;
Best Local Similarity 33.0%; Pred. No. 0.78;
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;
QY 8 GNOQS-----DAGSLAGTGGGLG-TPSSFSNNS-SVMGDPPLIDANTGPGDSGNTRGAG--59
DB 72 GNDQTTGVGNAGLNGRKGTAGTTTQSDSQNNLSENGNGLDQAITPDGQGG--GOIGDN 129
QY 60 -----QLIGELIDRGLQSLVLAGGGLGTPVNTPTGTSGANGQSAQDL 101
DB 130 PLLKAMKLKIARMMDGQSDQF---GQPGTGNNSSASSTSSSGSPFNDL 175

RESULT 13
US-10-010-390-5
; Sequence 5, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169


```

; SEQ ID NO 18
; LENGTH: 256
; TYPE: PRT
; ORGANISM: M. tuberculosis
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: PE_PGRS
; NAME/KEY: misc feature
; OTHER INFORMATION: gi|3261822
US-09-820-843A-18

Query Match      16.6%; Score 89; DB 11; Length 256;
Best Local Similarity 27.6%; Pred. No. 0.51;
Matches 29; Conservative 3; Mismatches 47; Indels 26; Gaps 2;

QY      4  GQQLGNQQSD-----AGSLAGTGGGLGTPSSFNNSSVMGDPLIDANTGPGDSG 52
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      160  GNAPGRRGGDGGDGGTGGAGGARGAGGAGGAGGWLSCHSGAHGAMGSGGEGGAGGGG 219
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

QY      53  NTRGEAGQLIGELIDRGLQSVLAGGGGLGTPVNTPTGTSAANGQGS 97
      |||||
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      220  GARGEAG-----AGGCTGTGTNPGKAGAPGTQGDS 249
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Search completed: January 20, 2004, 14:55:47
Job time : 26.5916 secs

```

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.2052 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_343_403

Perfect score: 308

Sequence: 1 MTPASMEQPNKAKGMIKRP.....DAMAGDAINNALGKLGAA 61

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfileesi.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	308	100.0	403	2	US-08-200-724A-2
2	308	100.0	403	2	US-09-030-270A-3
3	308	100.0	403	3	US-08-851-376A-2
4	308	100.0	403	3	US-08-984-207-3
5	308	100.0	403	3	US-09-013-587-3
6	308	100.0	403	4	US-09-086-118-23
7	195	63.3	338	1	US-08-891-254-1
8	195	63.3	338	2	US-08-484-358-2
9	195	63.3	338	2	US-08-819-539-1
10	195	63.3	338	2	US-09-030-270A-1
11	195	63.3	338	3	US-09-118-959-2
12	195	63.3	338	3	US-08-984-207-1
13	195	63.3	338	3	US-09-013-587-1
14	195	63.3	338	4	US-09-086-118-21
15	195	63.3	338	5	PCT-US96-08819-1
16	157	51.0	385	1	US-08-891-254-3
17	157	51.0	385	2	US-08-819-539-3
18	157	51.0	385	5	PCT-US96-08819-3
19	152	49.4	385	5	PCT-US93-06243-2
20	70.5	22.9	819	4	US-09-328-352-4650
21	65	21.1	406	4	US-09-252-991A-30272
22	64	20.8	943	4	US-09-056-556-204
23	64	20.8	943	4	US-09-072-596-199
24	63	20.5	215	4	US-09-252-991A-23858
25	62	20.1	1061	4	US-09-252-991A-23691
26	61	19.8	63	4	US-09-134-001C-4881
27	61	19.8	199	4	US-09-252-991A-26642

28	61	19.8	419	4	US-09-252-991A-24705	Sequence 24705, A
29	61	19.8	1490	4	US-09-252-991A-28442	Sequence 28442, A
30	60	19.5	943	4	US-09-477-135A-131	Sequence 131, Appl
31	60	19.5	2516	3	US-08-374-077C-2	Sequence 2, Appli
32	60	19.5	2516	3	US-08-895-590-2	Sequence 2, Appli
33	60	19.5	2516	4	US-09-539-879A-2	Sequence 2, Appli
34	57.5	18.7	872	2	US-08-387-942C-5	Sequence 5, Appli
35	57	18.5	163	4	US-09-252-991A-24261	Sequence 24261, A
36	57	18.5	873	4	US-09-336-447A-13	Sequence 13, Appl
37	56.5	18.3	186	4	US-09-252-991A-28195	Sequence 28195, A
38	56	18.2	2504	4	US-09-328-352-5821	Sequence 5821, Ap
39	55.5	18.0	162	4	US-09-198-452A-758	Sequence 758, Appl
40	55.5	18.0	672	4	US-09-363-708-2	Sequence 2, Appli
41	55.5	18.0	672	4	US-09-083-587-2	Sequence 2, Appli
42	55	17.9	156	4	US-09-252-991A-28892	Sequence 28892, A
43	54.5	17.7	392	4	US-09-252-991A-21609	Sequence 21609, A
44	54.5	17.7	455	4	US-09-328-352-5839	Sequence 5839, Ap
45	54.5	17.7	493	4	US-09-252-991A-30722	Sequence 30722, A

ALIGNMENTS

RESULT 1
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF INVENTION: 5
; TITLE OF INVENTION: IN PLANTS
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Haggrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/200,724A
FILING DATE: 23-FEB-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 308; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.le-31;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 60
Db 343 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 402
QY 61 A 61
Db 403 A 403

RESULT 2

US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 308; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-31;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 60
Db 343 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 402
QY 61 A 61
Db 403 A 403

RESULT 3

US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 308; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-31;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 60
Db 343 MTPASMEQFNKAKGMKRPWAGDTGNGNLQARGAGGSSLGIDAMAGDANNMALGKGA 402
QY 61 A 61
Db 403 A 403

RESULT 4

US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.


```

;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-1

Query Match 63.3%; Score 195; DB 2; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAGMTIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db 278 MTCASMDKFRQAMGMKISAVAGDTGTNTLNLRGAGGASLGIDAAVVGDKIANMSLGKLAN 337

QY 61 A 61
Db 338 A 338

RESULT 11
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysantheми
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-118-959-2

Query Match 63.3%; Score 195; DB 3; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAGMTIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60

```

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAADVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 12

US-08-984-207-1

; Sequence 1, Application US/08984207

; Patent No. 6235974

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED

; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: P.O. Box 1051, Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/984,207

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/033,230

; FILING DATE: 05-DEC-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1201

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 338 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-984-207-1

Query Match 63.3%; Score 195; DB 3; Length 338;

Best Local Similarity 65.6%; Pred. No. 5.7e-17;

Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMKRPAGDTGNTNLNLRGAGGSSLGIDAMMAGDAINNMLGKIGA 60

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAADVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 13

US-09-013-587-1

; Sequence 1, Application US/09013587

; Patent No. 6277814

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAADVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 14

US-09-086-118-21

; Sequence 21, Application US/09086118

; Patent No. 6583107

; GENERAL INFORMATION:

; APPLICANT: Laby, Ronald J.

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

; TITLE OF INVENTION: THEREOF

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/013,587

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/036,048

; FILING DATE: 27-JAN-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1501

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 338 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-09-013-587-1

Query Match 63.3%; Score 195; DB 3; Length 338;

Best Local Similarity 65.6%; Pred. No. 5.7e-17;

Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMKRPAGDTGNTNLNLRGAGGSSLGIDAMMAGDAINNMLGKIGA 60

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAADVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-21

Query Match 63.3%; Score 195; DB 4; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;
QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSLGIDAMMAGDAINNMAIGKLG 60
DB 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVGDKIANNMSLGKLAN 337
QY 61 A 61
DB 338 A 338

RESULT 15
PCT-US96-08819-1
Sequence 1, Application PC/TUS9608819
GENERAL INFORMATION:
APPLICANT: Cornell Research Foundation, Inc.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08819
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,775
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10051
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-08819-1
Query Match 63.3%; Score 195; DB 5; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;
QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSLGIDAMMAGDAINNMAIGKLG 60
DB 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVGDKIANNMSLGKLAN 337
QY 61 A 61
DB 338 A 338
Search completed: January 20, 2004, 14:57:58
Job time : 7.2052 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 15.4484 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_343_403

Perfect score: 308

Sequence: 1 MTPASMEQFNKAKGMIKRPK.....DAMMAGDAINNALGKLGAA 61

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 segs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/ECT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/ECTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	308	100.0	403	9	US-09-086-118-23
2	308	100.0	403	9	US-09-835-684-3
3	308	100.0	403	9	US-09-880-371-3
4	308	100.0	403	9	US-09-879-248-3
5	308	100.0	403	9	US-09-770-693-3
6	308	100.0	403	10	US-09-766-348-3
7	308	100.0	403	12	US-10-387-806-23
8	308	100.0	403	15	US-10-034-158-3
9	308	100.0	403	15	US-10-010-390-3
10	195	63.3	338	9	US-09-086-118-21
11	195	63.3	338	9	US-09-835-684-1
12	195	63.3	338	9	US-09-880-371-1
13	195	63.3	338	9	US-09-879-248-1
14	195	63.3	338	9	US-09-770-693-1
15	195	63.3	338	10	US-09-766-348-1

16	195	63.3	338	12	US-10-387-806-21
17	195	63.3	338	15	US-10-034-158-1
18	195	63.3	338	15	US-10-010-390-1
19	64	20.8	943	12	US-10-084-843-204
20	64	20.8	943	12	US-10-193-002-199
21	61	19.8	424	12	US-10-369-493-14012
22	61	19.8	424	12	US-10-312-088-25
23	60	19.5	943	12	US-09-996-634-131
24	60	19.5	943	11	US-09-997-182-131
25	60	19.5	943	11	US-09-997-181-131
26	58	18.8	274	12	US-10-369-493-18042
27	57.5	18.7	68	9	US-09-815-242-13610
28	57.5	18.7	352	10	US-09-738-626-4617
29	57	18.5	128	12	US-10-161-051-176
30	57	18.5	134	15	US-10-078-090-199
31	57	18.5	381	12	US-10-295-027-660
32	57	18.5	862	10	US-09-738-626-3956
33	57	18.5	873	11	US-09-952-267-113
34	56.5	18.3	67	9	US-09-815-242-13460
35	56.5	18.3	303	10	US-09-738-626-6409
36	56.5	18.3	439	15	US-10-156-761-11197
37	56.5	18.3	1173	11	US-09-836-705-50
38	56	18.2	58	15	US-10-156-761-8278
39	56	18.2	167	15	US-10-101-464A-715
40	56	18.2	552	12	US-10-369-493-2799
41	56	18.2	724	12	US-10-291-583-114
42	56	18.2	2095	12	US-10-063-685-35
43	56	18.2	2095	15	US-10-184-644-161
44	56	18.2	2095	15	US-10-184-634-161
45	55.5	18.0	148	15	US-10-156-761-12652

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

```
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 403 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-09-086-118-23

Query Match          100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US2002001937A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match          100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
```

```
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match          100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match          100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
```

```
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qlu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 308; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
```

```
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 308; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 308; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402

QY 61 A 61
DB 403 A 403

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
```

```
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 308; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      343 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 402

QY      61 A 61
Db      403 A 403

RESULT 10
US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-21

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      343 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 402

QY      61 A 61
Db      403 A 403

RESULT 11
US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      343 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 402

QY      61 A 61
Db      338 A 338

RESULT 12
US-09-880-371-1
; Sequence 1, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      343 MTPASMEQFNKAKGMIKRPMDGTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 402

QY      61 A 61
Db      338 A 338
```

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLRGAGGASLGIDAAVVGDKIANNMGLKLAN 337
61 A 61
338 A 338

RESULT 13
US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

Query Match 63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;
QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNHALKGLGA 60
Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLRGAGGASLGIDAAVVGDKIANNMGLKLAN 337
QY 61 A 61
338 A 338

RESULT 14
US-09-770-693-1
; Sequence 1, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-770-693-1

Query Match 63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;
QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNHALKGLGA 60
Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLRGAGGASLGIDAAVVGDKIANNMGLKLAN 337

QY 61 A 61
Db 338 A 338

RESULT 15
US-09-766-348-1
; Sequence 1, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-766-348-1

Query Match 63.3%; Score 195; DB 10; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;
QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNHALKGLGA 60
Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLRGAGGASLGIDAAVVGDKIANNMGLKLAN 337
QY 61 A 61
Db 338 A 338

Search completed: January 20, 2004, 14:55:47
Job time : 16.4484 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 16.1822 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_267_403

Perfect score: 714

Sequence: 1 MKAGIQALNDIGTHRSSTR.....DAMAGDAINNALGKLGA 137

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	714	100.0	403	2	US-08-200-724A-2
2	714	100.0	403	2	US-09-030-270A-3
3	714	100.0	403	3	US-08-851-376A-2
4	714	100.0	403	3	US-08-984-207-3
5	714	100.0	403	3	US-09-013-587-3
6	714	100.0	403	4	US-09-086-118-23
7	563	78.9	385	1	US-08-891-254-3
8	563	78.9	385	2	US-08-819-539-3
9	563	78.9	385	5	PCT-US96-08819-3
10	558	78.2	385	5	PCT-US93-06243-2
11	466	65.3	338	1	US-08-891-254-1
12	466	65.3	338	2	US-08-484-358-2
13	466	65.3	338	2	US-08-819-539-1
14	466	65.3	338	3	US-09-030-270A-1
15	466	65.3	338	3	US-09-118-959-2
16	466	65.3	338	3	US-08-984-207-1
17	466	65.3	338	3	US-09-013-587-1
18	466	65.3	338	4	US-09-086-118-21
19	466	65.3	338	5	PCT-US96-08819-1
20	85	11.9	341	1	US-08-062-024B-5
21	85	11.9	341	1	US-08-891-254-5
22	85	11.9	341	2	US-08-756-407-5
23	85	11.9	341	2	US-08-819-539-5
24	85	11.9	341	2	US-09-030-270A-5
25	85	11.9	341	3	US-08-984-207-5
26	85	11.9	341	3	US-09-013-587-5
27	85	11.9	341	4	US-09-086-118-25

28	85	11.9	341	5	PCT-US94-05014-5	Sequence 5, Appli
29	85	11.9	341	5	PCT-US96-08819-5	Sequence 5, Appli
30	75	10.5	474	4	US-09-702-705-1812	Sequence 1812, Ap
31	75	10.5	474	4	US-09-736-457-1812	Sequence 1812, Ap
32	74.5	10.4	1127	3	US-09-150-460B-11	Sequence 11, Appli
33	74	10.4	831	4	US-09-336-447A-1	Sequence 1, Appli
34	73.5	10.3	217	4	US-09-252-991A-29680	Sequence 29680, A
35	73.5	10.3	819	4	US-09-328-352-4650	Sequence 4650, A
36	73	10.2	1094	4	US-09-268-347-32	Sequence 32, Appli
37	71	9.9	751	2	US-08-843-530B-32	Sequence 32, Appli
38	70.5	9.9	232	6	5171843-7	Patent No. 5171843
39	70.5	9.9	378	6	5171843-9	Patent No. 5171843
40	70	9.8	309	4	US-09-252-991A-30024	Sequence 30024, A
41	69	9.7	640	4	US-09-336-115C-14	Sequence 14, Appli
42	68	9.5	490	4	US-09-252-991A-30874	Sequence 30874, A
43	68	9.5	518	4	US-09-252-991A-25967	Sequence 25967, A
44	67.5	9.5	190	4	US-09-125-619-27	Sequence 27, Appli
45	67.5	9.5	350	3	US-09-137-855-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; NUMBER OF INVENTION: IN PLANTS
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Haigrove, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 714; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 4e-78;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326
QY 61 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 120
Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 386
QY 121 MAGDAINNMGKLGAA 137
Db 387 MAGDAINNMGKLGAA 403

RESULT 2

US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 714; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 4e-76;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326
QY 61 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 120
Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 386
QY 121 MAGDAINNMGKLGAA 137
Db 387 MAGDAINNMGKLGAA 403

RESULT 3

US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 714; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 4e-78;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326
QY 61 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 120
Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGTGNLQARGAGSSSLGIDAM 386
QY 121 MAGDAINNMGKLGAA 137
Db 387 MAGDAINNMGKLGAA 403

RESULT 4

US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:


```
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA: US 60/048,109
/ APPLICATION NUMBER: 30-MAY-1997
/ FILING DATE: 30-MAY-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1301
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-086-118-23

Query Match          100.0%; Score 714; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 4e-78;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNNMALKLGAA 137
Db 387 MAGDAINNNMALKLGAA 403

RESULT 7
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match          78.9%; Score 563; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 372
```

```
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 385 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-891-254-3

Query Match          78.9%; Score 563; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 372

RESULT 8
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 17-MAR-1997
; APPLICATION NUMBER: US/08/819,539
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match          78.9%; Score 563; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQPGQEVKT 60
```

```
Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQ 372

RESULT 9
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 78.9%; Score 563; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQ 372

RESULT 10
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Bear, Alan Collier, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
```

```
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match 78.2%; Score 558; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 3e-59;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNL 105
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNL 371

RESULT 11
US-08-891-254-1
; Sequence 1, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
```

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/475,775
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Goldman, Michael L.
;; REGISTRATION NUMBER: 30,727
;; REFERENCE/DOCKET NUMBER: 14603/10050
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (716) 263-1304
;; TELEFAX: (716) 263-1600
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 338 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-891-254-1

Query Match 65.3%; Score 466; DB 1; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAKAIQGFMDQYVEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNNRHFDKEDRGMAKEIQGFMDQYVEVFGKPYQKPGQEVKTDD 263
QY 63 KSWAKALSPPDDGMPASMEQFNKAKGMIKRPAGDGTGNGNLQARGAGSSIGIDAMMA 122
Db 264 KSWAKALSPPDDGMPASMEQFNKAKGMIKRPAGDGTGNGNLQARGAGSSIGIDAMMA 323
QY 123 GDAINNMALGKLGAA 137
Db 324 GDKIANMSLGKLANA 338

RESULT 12
US-08-484-358-2
; Sequence 2. Application US/08484358
; Patent No. 5850015
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor
; TITLE OF INVENTION: From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/08/484,358
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids

;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-484-358-2

Query Match 65.3%; Score 466; DB 2; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAKAIQGFMDQYVEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNNRHFDKEDRGMAKEIQGFMDQYVEVFGKPYQKPGQEVKTDD 263
QY 63 KSWAKALSPPDDGMPASMEQFNKAKGMIKRPAGDGTGNGNLQARGAGSSIGIDAMMA 122
Db 264 KSWAKALSPPDDGMPASMEQFNKAKGMIKRPAGDGTGNGNLQARGAGSSIGIDAMMA 323
QY 123 GDAINNMALGKLGAA 137
Db 324 GDKIANMSLGKLANA 338

RESULT 13
US-08-819-539-1
; Sequence 1. Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-1

Query Match 65.3%; Score 466; DB 2; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAKAIQGFMDQYVEVFGKPYQKPGQEVKTDD 62

Db 204 AALSALSNVSTHVDGNRRHFVDKEDRGMAKEIQFMDQYPEIFGKPEYQKDGWSSPKTDD 263
Qy 63 KSWAKALSKPDDGDMTPASMEQFNKAGMIKRPAGDGTGNGNLQARGAGSSLGIDAMMA 122
Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323
Qy 123 GDAINNMALGKLGA 137
Db 324 GDKIANMSLGKLANA 338

RESULT 14
US-09-030-270A-1
; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitcer, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-1

Query Match 65.3%; Score 466; DB 2; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;
Qy 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAKAIQFMDQYPEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNRRHFVDKEDRGMAKEIQFMDQYPEIFGKPEYQKDGWSSPKTDD 263
Qy 63 KSWAKALSKPDDGDMTPASMEQFNKAGMIKRPAGDGTGNGNLQARGAGGSSLGIDAMMA 122
Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323
Qy 123 GDAINNMALGKLGA 137
Db 324 GDKIANMSLGKLANA 338

RESULT 15
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chryseanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-118-959-2

Query Match 65.3%; Score 466; DB 3; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;
Qy 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAKAIQFMDQYPEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNRRHFVDKEDRGMAKEIQFMDQYPEIFGKPEYQKDGWSSPKTDD 263
Qy 63 KSWAKALSKPDDGDMTPASMEQFNKAGMIKRPAGDGTGNGNLQARGAGGSSLGIDAMMA 122
Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323
Qy 123 GDAINNMALGKLGA 137
Db 324 GDKIANMSLGKLANA 338

Search completed: January 20, 2004, 14:57:58
Job time : 17.1822 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 34.6957 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_267_403

Perfect score: 714

Sequence: 1 MKAGIQALNDIGTHRSSTR.....DAMWAGDAINNVALGKLGA 137

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	714	100.0	403	9	US-09-086-118-23
2	714	100.0	403	9	US-09-835-684-3
3	714	100.0	403	9	US-09-880-371-3
4	714	100.0	403	9	US-09-879-248-3
5	714	100.0	403	9	US-09-770-693-3
6	714	100.0	403	10	US-09-766-348-3
7	714	100.0	403	12	US-10-387-806-23
8	714	100.0	403	15	US-10-034-158-3
9	714	100.0	403	15	US-10-010-390-3
10	466	65.3	338	9	US-09-086-118-21
11	466	65.3	338	9	US-09-835-684-1
12	466	65.3	338	9	US-09-880-371-1
13	466	65.3	338	9	US-09-879-248-1
14	466	65.3	338	9	US-09-770-693-1
15	466	65.3	338	10	US-09-766-348-1

16	466	65.3	338	12	US-10-387-806-21
17	466	65.3	338	15	US-10-034-158-1
18	466	65.3	338	15	US-10-010-390-1
19	85	11.9	341	9	US-09-086-118-25
20	85	11.9	341	9	US-09-835-684-7
21	85	11.9	341	9	US-09-880-371-7
22	85	11.9	341	9	US-09-879-248-11
23	85	11.9	341	9	US-09-770-693-5
24	85	11.9	341	12	US-10-387-806-25
25	85	11.9	341	15	US-10-034-158-5
26	85	11.9	341	15	US-10-010-390-7
27	81.5	11.4	556	9	US-09-815-242-11023
28	81	11.3	3256	10	US-09-919-172-98
29	81	11.3	3256	11	US-09-919-039-21
30	77.5	10.9	359	9	US-09-925-302-591
31	77.5	10.9	399	12	US-10-205-194-146
32	77.5	10.9	617	12	US-10-295-027-468
33	77.5	10.9	617	12	US-10-295-027-1316
34	76.5	10.7	112	9	US-09-864-761-35771
35	76.5	10.7	401	12	US-10-369-493-3473
36	76.5	10.7	540	15	US-10-156-761-10686
37	75	10.5	474	10	US-09-736-457-1812
38	75	10.5	474	10	US-09-902-941-1812
39	75	10.5	474	10	US-09-849-626-1812
40	75	10.5	474	12	US-10-113-872-1812
41	75	10.5	474	12	US-10-029-386-32037
42	75	10.5	474	15	US-10-017-754-1812
43	75	10.5	474	15	US-10-205-823-381
44	74	10.4	443	12	US-10-369-493-4021
45	74	10.4	831	11	US-09-952-267-1

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086.118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

```
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 5
```

```
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 714; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 120
```

```
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US2003018283A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 714; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3
```

Query Match 100.0%; Score 714; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
DB 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326
QY 61 DKSNAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAM 120
DB 327 DKSNAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAM 386
QY 121 MAGDAINNMGALGLGAA 137
DB 387 MAGDAINNMGALGLGAA 403

RESULT 9

US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match 100.0%; Score 714; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
DB 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326
QY 61 DKSNAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAM 120
DB 327 DKSNAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAM 386
QY 121 MAGDAINNMGALGLGAA 137
DB 387 MAGDAINNMGALGLGAA 403

RESULT 10

US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051

CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FILING DATE: 2001-04-16
APPLICATION NUMBER: US/09/086,118
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-21

Query Match 65.3%; Score 466; DB 9; Length 338;
Best Local Similarity 66.7%; Pred. No. 7.4e-43;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDD 62
DB 204 AALSALSVSTHVDGNNRHFDKEDRGMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDD 263
QY 63 KSWAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAMMA 122
DB 264 KSWAKALSKPDDGDMTTPASMEQFNKAKGMKRPWAGDTGNGNLOARGAGSSSLGIDAMMA 323
QY 123 GDAINNMGALGLGAA 137
DB 324 GDAINNMGALGLGAA 338

RESULT 11

US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US2002001937A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dwen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

DB 264 KSWAKALUSKPPDDGMTGASMDKFRQAWGM I KSA VAGDTGNTNLNLRGARGGASLG L DAAV 322

Qy 123 GDAINNNALGKLGA A 137
||| ||| ||| |
DB 324 GDKIANNMGLKLANA 338

RESULT 15
US-09-766-348-1
; Sequence 1, Application US/09766348
; Patent NO. US2002011673A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986

```
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-766-348-1

Query Match      65.3%; Score 466; DB 10; Length 338;
Best Local Similarity 66.7%; Pred. No. 7.4e-43;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSTRSFVNKGDRAKAEIQGFMDQYPEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHYDGNRHFDKEDRCMAKEIQGFMDQYPEIFGKPYQKDGWSSPKTDD 263
QY 63 KSWAKALSKPDDDDGMDTPASMEQFNKAKGMIKRPAGDTGNLQARGAGSSSLGIDAMMA 122
Db 264 KSWAKALSKPDDDDGMDTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGASLGIDAAVV 323
QY 123 GDAINNMALGKLGAA 137
Db 324 GDKIANMSLGKLANA 338
```

Search completed: January 20, 2004, 14:55:46
Job time : 35.6957 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 22.9149 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_210_403
Perfect score: 1013
Sequence: 1 MNGLSQLLNGGLGGGGG.....DAMWAGDAINNALGKLGA 194

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2.6/prodata/1/iaa/5A_COMB.pep.*
2: /cgn2.6/prodata/1/iaa/5B_COMB.pep.*
3: /cgn2.6/prodata/1/iaa/6A_COMB.pep.*
4: /cgn2.6/prodata/1/iaa/6B_COMB.pep.*
5: /cgn2.6/prodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2.6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1013	100.0	403	2	US-08-200-724A-2
2	1013	100.0	403	2	US-09-030-270A-3
3	1013	100.0	403	3	US-08-851-376A-2
4	1013	100.0	403	3	US-08-984-207-3
5	1013	100.0	403	3	US-09-013-587-3
6	1013	100.0	403	4	US-09-086-118-23
7	862	85.1	385	1	US-08-891-254-3
8	862	85.1	385	2	US-08-819-539-3
9	862	85.1	385	5	PCT-US96-08819-3
10	847	83.6	385	5	PCT-US93-06243-2
11	582	57.5	338	1	US-08-891-254-1
12	582	57.5	338	2	US-08-484-358-2
13	582	57.5	338	2	US-08-819-539-1
14	582	57.5	338	2	US-09-030-270A-1
15	582	57.5	338	3	US-09-118-959-2
16	582	57.5	338	3	US-08-984-207-1
17	582	57.5	338	3	US-09-013-587-1
18	582	57.5	338	4	US-09-086-118-21
19	582	57.5	338	5	PCT-US96-08819-1
20	120.5	11.9	1127	3	US-09-150-460B-11
21	108	10.7	569	3	US-08-926-842B-19
22	104	10.3	566	3	US-08-926-842B-18
23	103	10.2	341	1	US-08-062-024B-5
24	103	10.2	341	1	US-08-891-254-5
25	103	10.2	341	2	US-08-756-407-5
26	103	10.2	341	2	US-08-819-539-5
27	103	10.2	341	2	US-09-030-270A-5

28	103	10.2	341	3	US-08-984-207-5	Sequence 5, Appli
29	103	10.2	341	3	US-09-013-587-5	Sequence 5, Appli
30	103	10.2	341	4	US-09-086-118-25	Sequence 25, Appli
31	103	10.2	341	5	PCT-US94-05014-5	Sequence 5, Appli
32	103	10.2	341	5	PCT-US96-08819-5	Sequence 5, Appli
33	99	9.8	479	3	US-09-177-349-3	Sequence 3, Appli
34	98	9.7	464	4	US-09-252-991A-24883	Sequence 24883, A
35	96.5	9.5	141	4	US-09-252-991A-23427	Sequence 23427, A
36	95.5	9.4	651	3	US-08-556-978B-19	Sequence 19, Appli
37	95.5	9.4	651	3	US-09-247-806-1	Sequence 1, Appli
38	95.5	9.4	718	1	US-08-425-069-2	Sequence 2, Appli
39	95.5	9.4	718	2	US-08-317-844B-2	Sequence 2, Appli
40	95.5	9.4	747	3	US-09-034-177-3	Sequence 3, Appli
41	93.5	9.2	943	4	US-09-056-556-204	Sequence 204, App
42	93.5	9.2	943	4	US-09-072-596-199	Sequence 199, App
43	93.5	9.2	943	4	US-09-477-135A-131	Sequence 131, App
44	92	9.1	349	4	US-09-252-991A-17840	Sequence 17840, A
45	90.5	8.9	1958	1	US-07-945-283-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF INVENTION: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Haigraue, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 1013; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.3e-98;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 60
Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 269
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 120
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 329
QY 121 SWAKALSPPDDGGMTSPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMWAG 180
Db 330 SWAKALSPPDDGGMTSPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMWAG 389
QY 181 DAINNMALGKLGAA 194
Db 390 DAINNMALGKLGAA 403

RESULT 2

US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030, 270A
; FILING DATE:
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039, 226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 1013; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.3e-98;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 60
Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 269
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 120
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 329

QY 121 SWAKALSPPDDGGMTSPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMWAG 180
Db 330 SWAKALSPPDDGGMTSPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMWAG 389
QY 181 DAINNMALGKLGAA 194
Db 390 DAINNMALGKLGAA 403

RESULT 3

US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851, 376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 1013; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.3e-98;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 60
Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAVGTGIMKA 269
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 120
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFKPQYQKPGQGVKTTDDK 329
QY 121 SWAKALSPPDDGGMTSPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMWAG 180


```

Db      330 SWAKALSXPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSLGIDAMMAG 389
Qy      181 DAINNMALGKLGA 194
Db      390 DAINNMALGKLGA 403

RESULT 4
US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Giu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 1013; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.3e-98;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy      1 MNGISQLLGNLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNVGTGIGMKA 60
Db      210 MNGLSQLLGNLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNVGTGIGMKA 269
Qy      61 GIQALNDIGTTHRSSTRSFVNKGDRAWAKEIQFMDQYEVFGKPOYQKGPQGVKTTDDK 120
Db      270 GIQALNDIGTTHRSSTRSFVNKGDRAWAKEIQFMDQYEVFGKPOYQKGPQGVKTTDDK 329
Qy      121 SWAKALSXPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSLGIDAMMAG 180
Db      330 SWAKALSXPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSLGIDAMMAG 389
Qy      181 DAINNMALGKLGA 194
Db      390 DAINNMALGKLGA 403

```

APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 1013; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.3e-98;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNLSQLLNGGLGGGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60
Db 210 MGNLSQLLNGGLGGGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269

QY 61 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYKGPQGVKTTDDK 120
Db 270 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYKGPQGVKTTDDK 329

QY 121 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQARAGAGSSLGIDAMMAG 180
Db 330 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQARAGAGSSLGIDAMMAG 389

QY 181 DAINNMALKLGAA 194
Db 390 DAINNMALKLGAA 403

RESULT 7
US-08-891-254-3
Sequence 3, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance In Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-3

Query Match 85.1%; Score 862; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.6e-82;
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNLSQLLNGGLGGGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60
Db 210 MGNLSQLLNGGLGGGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269

QY 61 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYKGPQGVKTTDDK 120
Db 270 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYKGPQGVKTTDDK 329

QY 121 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQ 163
Db 330 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQ 372

RESULT 8
US-08-819-539-3
Sequence 3, Application US/08819539
Patent No. 5859324
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance In Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30

;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/819,539
;/ FILING DATE: 17-MAR-1997
;/ CLASSIFICATION: 800
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER: 08/475,775
;/ FILING DATE:
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: Goldman, Michael L.
;/ REGISTRATION NUMBER: 30,727
;/ REFERENCE/DOCKET NUMBER: 14603/10050
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (716) 263-1304
;/ TELEFAX: (716) 263-1600
;/ INFORMATION FOR SEQ ID NO: 3:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 385 amino acids
;/ TYPE: amino acid
;/ STRANDEDNESS:
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: protein
;/ US-08-819-539-3

Query Match 85.1%; Score 862; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.6e-82;
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60
Db 210 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 120
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 329
QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 163
Db 330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 372

RESULT 9
PCT-US96-08819-3
;/ Sequence 3, Application PC/TUS9608819
;/ GENERAL INFORMATION:
;/ APPLICANT: Cornell Research Foundation, Inc.
;/ TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
;/ TITLE OF INVENTION: RESISTANCE IN PLANTS
;/ NUMBER OF SEQUENCES: 9
;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
;/ STREET: Clinton Square, P.O. Box 1051
;/ CITY: Rochester
;/ STATE: New York
;/ COUNTRY: U.S.A.
;/ ZIP: 14603
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: PatentIn Release #1.0, Version #1.30
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: PCT/US96/08819
;/ FILING DATE:
;/ CLASSIFICATION:
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER: US 08/475,775
;/ FILING DATE: 07-JUN-1995
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: Goldman, Michael L.
;/ REGISTRATION NUMBER: 30,727
;/ REFERENCE/DOCKET NUMBER: 19603/10051
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (716) 263-1304

;/ TELEFAX: (716) 263-1600
;/ INFORMATION FOR SEQ ID NO: 3:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 385 amino acids
;/ TYPE: amino acid
;/ STRANDEDNESS:
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: protein
;/ PCT-US96-08819-3
Query Match 85.1%; Score 862; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.6e-82;
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60
Db 210 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 120
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 329
QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 163
Db 330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 372

RESULT 10
PCT-US93-06243-2
;/ Sequence 2, Application PC/TUS9306243
;/ GENERAL INFORMATION:
;/ APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
;/ APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
;/ TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
;/ NUMBER OF SEQUENCES: 5
;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Yahwak & Associates
;/ STREET: 25 Skytop Drive
;/ CITY: Trumbull
;/ STATE: Connecticut
;/ COUNTRY: USA
;/ ZIP: 06611
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: floppy disk
;/ COMPUTER: Macintosh
;/ OPERATING SYSTEM: MS-DOS
;/ SOFTWARE: Microsoft Word 4.0
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: PCT/US93/06243
;/ FILING DATE: 19930630
;/ CLASSIFICATION:
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER: 907,935
;/ FILING DATE: 01-JUL-1992
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: George M. Yahwak
;/ REGISTRATION NUMBER: 26,824
;/ REFERENCE/DOCKET NUMBER: CRF D-1172
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (203)268-1951
;/ TELEFAX: (203)268-1951
;/ INFORMATION FOR SEQ ID NO: 2:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 385 amino acids
;/ TYPE: amino acid
;/ STRANDEDNESS: single
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: peptide
;/ PCT-US93-06243-2

Query Match 83.6%; Score 847; DB 5; Length 385;
Best Local Similarity 98.8%; Pred. No. 6e-81;
Matches 160; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOOLGNVAGTIGMKA 60
Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLRGLSGPVDYQOOLGNVAGTIGMKA 269
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKTTDDK 120
Db 270 GQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKTTDDK 329
QY 121 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNL 162
Db 330 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNL 371

RESULT 11
US-08-891-254-1
; Sequence 1, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bear, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-891-254-1

Query Match 57.5%; Score 582; DB 1; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOOLGNVAGTIGMKA 60
Db 151 VNNALSSILNG-----LGQSMGFSQPSLGGGLGSLGAGAFNQLGNALGMVGQNA 204
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKTTDDK 120
Db 205 ALSALSNVSTHVDGNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTTDDK 264
QY 121 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNLQARGAGGSSSLGIDAMMAG 180

Db 265 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNLNLRGAGGASLGIDAAYVG 324
QY 181 DAINNMALGKLGAA 194
Db 325 DKIANNSLGLKLANA 338
RESULT 12
US-08-484-358-2
; Sequence 2, Application US/08484358
; Patent No. 5850015
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor
; TITLE OF INVENTION: From
; TITLE OF INVENTION: Erwinia Chrysanthemii
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,358
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-484-358-2

Query Match 57.5%; Score 582; DB 2; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOOLGNVAGTIGMKA 60
Db 151 VNNALSSILNG-----LGQSMGFSQPSLGGGLGSLGAGAFNQLGNALGMVGQNA 204
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKTTDDK 120
Db 205 ALSALSNVSTHVDGNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTTDDK 264
QY 121 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNLQARGAGGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGWTMTASMEQFNKAKGMIKRPVAGDTGNLNLRGAGGASLGIDAAYVG 324
QY 181 DAINNMALGKLGAA 194
Db 325 DKIANNSLGLKLANA 338
RESULT 13
US-08-819-539-1

```
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-1

Query Match 57.5%; Score 582; DB 2; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;

QY 1 MNGLSQLLNGGLGGGGNAGTGLDSSLGKGLNLGSPVDYQOLGNVGTGIGMKA 60
Db 151 VNNALSSILNG-----LQSMGSPQPSLGGAGLQGLSGAGAFNOLGNAIGMGVQNA 204

QY 61 GIOALNDICTHRHSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYKPGQGVKTDK 120
Db 205 ALSLSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264

QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAYVG 324

QY 181 DAINNALGKLGAA 194
Db 325 DKIANMSLGKLANA 338

RESULT 14
US-09-030-270A-1
; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
```

```
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-1

Query Match 57.5%; Score 582; DB 2; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;

QY 1 MNGLSQLLNGGLGGGGNAGTGLDSSLGKGLNLGSPVDYQOLGNVGTGIGMKA 60
Db 151 VNNALSSILNG-----LQSMGSPQPSLGGAGLQGLSGAGAFNOLGNAIGMGVQNA 204

QY 61 GIOALNDICTHRHSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYKPGQGVKTDK 120
Db 205 ALSLSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264

QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAYVG 324

QY 181 DAINNALGKLGAA 194
Db 325 DKIANMSLGKLANA 338

RESULT 15
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 49.1311 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_210_403

Perfect score: 1013

Sequence: 1 MGNGLSQLNGGLGGGGGG.....DAMMAGDAINNALGKLGA 194

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1013	100.0	403	9	US-09-086-118-23
2	1013	100.0	403	9	US-09-835-684-3
3	1013	100.0	403	9	US-09-880-371-3
4	1013	100.0	403	9	US-09-879-248-3
5	1013	100.0	403	9	US-09-770-693-3
6	1013	100.0	403	10	US-09-766-348-3
7	1013	100.0	403	12	US-10-387-806-23
8	1013	100.0	403	15	US-10-034-158-3
9	1013	100.0	403	15	US-10-010-390-3
10	582	57.5	338	9	US-09-835-684-1
11	582	57.5	338	9	US-09-880-371-1
12	582	57.5	338	9	US-09-879-248-1
13	582	57.5	338	9	US-09-770-693-1
14	582	57.5	338	10	US-09-766-348-1
15	582	57.5	338	10	US-09-766-348-1

16	582	57.5	338	12	US-10-387-806-21	Sequence 21, Appl
17	582	57.5	338	15	US-10-034-158-1	Sequence 1, Appl
18	582	57.5	338	15	US-10-010-390-1	Sequence 1, Appl
19	114	11.3	484	11	US-09-820-843A-19	Sequence 19, Appl
20	107.5	10.6	406	15	US-10-156-761-14828	Sequence 14828, A
21	104	10.3	477	12	US-10-307-389-5	Sequence 5, Appl
22	104	10.3	906	12	US-10-307-389-6	Sequence 6, Appl
23	103	10.2	341	9	US-09-086-118-25	Sequence 25, Appl
24	103	10.2	341	9	US-09-835-684-7	Sequence 7, Appl
25	103	10.2	341	9	US-09-880-371-7	Sequence 7, Appl
26	103	10.2	341	9	US-09-879-248-11	Sequence 11, Appl
27	103	10.2	341	9	US-09-770-693-5	Sequence 5, Appl
28	103	10.2	341	12	US-10-387-806-25	Sequence 25, Appl
29	103	10.2	341	15	US-10-034-158-5	Sequence 5, Appl
30	103	10.2	341	15	US-10-010-390-7	Sequence 7, Appl
31	102.5	10.1	1079	11	US-09-820-843A-20	Sequence 20, Appl
32	100.5	9.9	468	12	US-10-307-389-4	Sequence 4, Appl
33	99	9.8	479	10	US-09-918-951-3	Sequence 3, Appl
34	97	9.6	702	12	US-10-161-051-18	Sequence 18, Appl
35	95.5	9.4	651	9	US-09-861-597-1	Sequence 1, Appl
36	95.5	9.4	651	12	US-10-414-760-1	Sequence 1, Appl
37	95.5	9.4	775	15	US-10-156-761-12824	Sequence 12824, A
38	95	9.4	400	15	US-10-156-761-12096	Sequence 12096, A
39	94	9.3	314	9	US-09-849-967A-3	Sequence 3, Appl
40	94	9.3	320	12	US-10-341-434-59	Sequence 59, Appl
41	93.5	9.2	321	15	US-10-060-036-158	Sequence 158, App
42	93.5	9.2	334	9	US-09-925-301-1363	Sequence 1363, Ap
43	93.5	9.2	537	15	US-10-179-038-8	Sequence 8, Appl
44	93.5	9.2	943	10	US-09-996-634-131	Sequence 131, App
45	93.5	9.2	943	11	US-09-997-182-131	Sequence 131, App

ALIGNMENTS

RESULT 1

US-09-086-118-23

; Sequence 23, Application US/09086118

; Patent No. US20010011380A1

; GENERAL INFORMATION:

; APPLICANT: Laby, Ronald J.

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

; TITLE OF INVENTION: THEREOF

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC Compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/086,118

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/048,109

; FILING DATE: 30-MAY-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1301

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 1013; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 60
DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 269

QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 120
DB 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 329

QY 121 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 180
DB 330 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 389

QY 181 DAINNMALGKLGAA 194
DB 390 DAINNMALGKLGAA 403

RESULT 2
US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
APPLICANT: Remick, Dean
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
TITLE OF INVENTION: DESICCATION
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
PRIOR FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 1013; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 60
DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 269

QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 120
DB 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 329

QY 121 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 180
DB 330 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 389

QY 181 DAINNMALGKLGAA 194
DB 390 DAINNMALGKLGAA 403

RESULT 3

US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: DeRoche, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 1013; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 60
DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 269

QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 120
DB 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDK 329

QY 121 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 180
DB 330 SWAKALSKPDDDDGWTTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSSLGIDAMMAG 389

QY 181 DAINNMALGKLGAA 194
DB 390 DAINNMALGKLGAA 403

RESULT 4

US-09-879-248-3
Sequence 3, Application US/09879248
Patent No. US20020062500A1
GENERAL INFORMATION:
APPLICANT: Pan, Hao
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 21829/81
CURRENT APPLICATION NUMBER: US/09/879,248
CURRENT FILING DATE: 2001-06-12
PRIOR APPLICATION NUMBER: 60/212,211
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 1013; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 60
DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAGTGTGIMKA 269

Db 210 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 269
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 120
Db 270 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 329
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389
QY 181 DAINNMALGKLGA 194
Db 390 DAINNMALGKLGA 403

RESULT 5

US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 1013; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 60
Db 210 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 269
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 120
Db 270 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 329
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389
QY 181 DAINNMALGKLGA 194
Db 390 DAINNMALGKLGA 403

RESULT 6

US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US2002011673A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Zhong
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207

; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match 100.0%; Score 1013; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 60
Db 210 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 269
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 120
Db 270 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 329
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389
QY 181 DAINNMALGKLGA 194
Db 390 DAINNMALGKLGA 403

RESULT 7

US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match 100.0%; Score 1013; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3e-87;
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 60
Db 210 MGNLSQLLNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNAVGTGIGMKA 269
QY 61 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 120
Db 270 GQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDDK 329
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389

Db 151 VNNALSSILGNG-----LQSQMSGFSPSLGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGOEVKTDK 120
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPMDAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324
Qy 181 DAINNMALGKLGAA 194
Db 325 DKIANMSLGLKLANA 338

RESULT 11

US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Giu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR FILING DATE: 2000-04-19
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

Query Match 57.5%; Score 582; DB 9; Length 338;
Best Local Similarity 59.8%; Pred. No. 9.8e-47;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60
Db 151 VNNALSSILGNG-----LQSQMSGFSPSLGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGOEVKTDK 120
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPMDAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324
Qy 181 DAINNMALGKLGAA 194
Db 325 DKIANMSLGLKLANA 338

RESULT 12

US-09-880-371-1
; Sequence 1, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13

; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match 57.5%; Score 582; DB 9; Length 338;
Best Local Similarity 59.8%; Pred. No. 9.8e-47;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60
Db 151 VNNALSSILGNG-----LQSQMSGFSPSLGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGOEVKTDK 120
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPMDAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324
Qy 181 DAINNMALGKLGAA 194
Db 325 DKIANMSLGLKLANA 338

RESULT 13

US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

Query Match 57.5%; Score 582; DB 9; Length 338;
Best Local Similarity 59.8%; Pred. No. 9.8e-47;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60
Db 151 VNNALSSILGNG-----LQSQMSGFSPSLGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGOEVKTDK 120
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPMDAGDTGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324
Qy 181 DAINNMALGKLGAA 194
Db 325 DKIANMSLGLKLANA 338

```
RESULT 14
US-09-770-693-1
; Sequence 1, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; PRIOR FILING DATE: 2001-01-26
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-770-693-1

Query Match 57.5%; Score 582; DB 9; Length 338;
Best Local Similarity 59.8%; Pred. No. 9.8e-47;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;

QY 1 MGNLSQLLNGGLGGGQGNAGTGLDGSLSGKGLQNLGGPVDYQOLGNAVGTGIGMKA 60
Db 151 VNNALSSILNG-----LGQSMGSPQPSLGGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204

QY 61 GIQALNDICGTHRHSSSTRSFVNKGRAMAKEIGQFMDQYPEVFGKPOYQKPGQEVKTDDK 120
Db 205 ALSALSNVSTHVDGNNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264

QY 121 SWAKALSKPDDDDGMDTPASMEQFNKAGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDDGMDTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324

QY 181 DAINNMALGKLGA 194
Db 325 DKIANMSLGLANA 338

Search completed: January 20, 2004, 14:55:45
Job time : 49.1311 secs
```

```
RESULT 15
US-09-766-348-1
; Sequence 1, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-766-348-1

Query Match 57.5%; Score 582; DB 10; Length 338;
Best Local Similarity 59.8%; Pred. No. 9.8e-47;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;
```

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 27.7578 Seconds
(without alignments)
358.208 Million cell updates/sec

Title: US-09-412-100-23_COPY_169_403

Perfect score: 1225

Sequence: 1 MQSLFQDGDGTQGSSEGGK.....DAMMAGDAINNALGKLGAA 235

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pcp.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pcp.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1225	100.0	403	2	US-08-200-724A-2
2	1225	100.0	403	2	US-09-030-270A-3
3	1225	100.0	403	3	US-08-851-376A-2
4	1225	100.0	403	3	US-08-984-207-3
5	1225	100.0	403	3	US-09-013-587-3
6	1225	100.0	403	4	US-09-086-118-23
7	1074	87.7	385	1	US-08-891-254-3
8	1074	87.7	385	2	US-08-819-539-3
9	1074	87.7	385	5	PCT-US96-08819-3
10	1059	86.4	385	5	PCT-US93-06243-2
11	621	50.7	338	1	US-08-891-254-1
12	621	50.7	338	2	US-08-484-358-2
13	621	50.7	338	2	US-08-819-539-1
14	621	50.7	338	2	US-09-030-270A-1
15	621	50.7	338	3	US-09-118-959-2
16	621	50.7	338	3	US-08-984-207-1
17	621	50.7	338	3	US-09-013-587-1
18	621	50.7	338	4	US-09-086-118-21
19	621	50.7	338	5	PCT-US96-08819-1
20	137.5	11.2	1127	3	US-09-150-4608-11
21	120	9.8	651	3	US-08-556-978B-19
22	120	9.8	651	3	US-09-247-806-1
23	120	9.8	718	1	US-08-425-069-2
24	120	9.8	718	2	US-08-317-844B-2
25	120	9.8	747	3	US-09-034-177-3
26	117	9.6	679	3	US-08-913-942-15
27	117	9.6	679	4	US-09-268-347-26

28	112.5	9.2	341	1	US-08-062-024B-5	Sequence 5, Appli
29	112.5	9.2	341	1	US-08-891-254-5	Sequence 5, Appli
30	112.5	9.2	341	2	US-08-756-407-5	Sequence 5, Appli
31	112.5	9.2	341	2	US-08-819-539-5	Sequence 5, Appli
32	112.5	9.2	341	2	US-09-030-270A-5	Sequence 5, Appli
33	112.5	9.2	341	3	US-08-984-207-5	Sequence 5, Appli
34	112.5	9.2	341	3	US-09-013-587-5	Sequence 5, Appli
35	112.5	9.2	341	4	US-09-086-118-25	Sequence 25, Appli
36	112.5	9.2	341	5	PCT-US94-05014-5	Sequence 5, Appli
37	112.5	9.2	341	5	PCT-US96-08819-5	Sequence 5, Appli
38	112.5	9.2	464	4	US-09-252-991A-24883	Sequence 24883, A
39	111.5	9.1	318	3	US-09-060-756-727	Sequence 727, App
40	111.5	9.1	318	4	US-09-670-314-727	Sequence 727, App
41	111	9.1	334	3	US-09-060-756-728	Sequence 728, App
42	111	9.1	334	4	US-09-670-314-728	Sequence 728, App
43	110	9.0	604	3	US-08-556-978B-63	Sequence 63, Appli
44	110	9.0	606	3	US-08-556-978B-23	Sequence 23, Appli
45	110	9.0	606	3	US-09-247-806-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; NUMBER OF INVENTION: IN PLANTS
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 1225; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60
DB 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120
DB 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288
QY 121 VNKGDRAKAIQGFMDQYPEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMTASM 180
DB 289 VNKGDRAKAIQGFMDQYPEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMTASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

RESULT 2

US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030, 270A
; FILING DATE:
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039, 226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 1225; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60
DB 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120
DB 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288

QY 121 VNKGDRAKAIQGFMDQYPEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMTASM 180
DB 289 VNKGDRAKAIQGFMDQYPEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMTASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

RESULT 3

US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851, 376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 1225; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60
DB 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120
DB 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288
QY 121 VNKGDRAKAIQGFMDQYPEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMTASM 180

Db 289 VNKGDRAKAEIKGFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSXPDDDDGMPASM 348
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 403

RESULT 4
US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6215974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:

CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-984-207-3
Query Match 100.0%; Score 1225; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNLSQLLNGGLGGGQ 60
Db 169 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGKGLQNLGGPVDYQOLGNVAVGTGIGMKAGIQAALNDIGTHRHSSSTRSF 120
Db 229 GNAGTGLDSSSLGKGLQNLGGPVDYQOLGNVAVGTGIGMKAGIQAALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAKAEIKGFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSXPDDDDGMPASM 180
Db 289 VNKGDRAKAEIKGFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSXPDDDDGMPASM 348
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 403

RESULT 5
US-09-013-587-3
; Sequence 3, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:

CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-013-587-3
Query Match 100.0%; Score 1225; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNLSQLLNGGLGGGQ 60
Db 169 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGKGLQNLGGPVDYQOLGNVAVGTGIGMKAGIQAALNDIGTHRHSSSTRSF 120
Db 229 GNAGTGLDSSSLGKGLQNLGGPVDYQOLGNVAVGTGIGMKAGIQAALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAKAEIKGFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSXPDDDDGMPASM 180
Db 289 VNKGDRAKAEIKGFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSXPDDDDGMPASM 348
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKGA 403

RESULT 6
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF
TITLE OF INVENTION: 30
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 1225; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 2e-113;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTGSSSGGKQPTGEGQNAKYGKVTDALSGLMGNGLSQLLNGGLGGGG 60
DB 169 MOSLFGDGDGTGSSSGGKQPTGEGQNAKYGKVTDALSGLMGNGLSQLLNGGLGGGG 228

QY 61 GNAGTGLDSSLGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120
DB 229 GNAGTGLDSSLGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288

QY 121 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDDKSWAKALSKPDDGTMTPASM 180
DB 289 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDDKSWAKALSKPDDGTMTPASM 348

QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSGIGIDAMMAGDANNMALGKLAA 235
DB 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSGIGIDAMMAGDANNMALGKLAA 403

RESULT 7
US-08-891-254-3
Sequence 3, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance in Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-3

Query Match 87.7%; Score 1074; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTGSSSGGKQPTGEGQNAKYGKVTDALSGLMGNGLSQLLNGGLGGGG 60
DB 169 MOSLFGDGDGTGSSSGGKQPTGEGQNAKYGKVTDALSGLMGNGLSQLLNGGLGGGG 228

QY 61 GNAGTGLDSSLGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120
DB 229 GNAGTGLDSSLGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288

QY 121 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDDKSWAKALSKPDDGTMTPASM 180
DB 289 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDDKSWAKALSKPDDGTMTPASM 348

QY 181 EQFNKAKGMIKRPWAGDTGNGNLQ 204
DB 349 EQFNKAKGMIKRPWAGDTGNGNLQ 372

RESULT 8
US-08-819-539-3
Sequence 3, Application US/08819539
Patent No. 5859324
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance in Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/819,539
;; FILING DATE: 17-MAR-1997
;; PRIOR APPLICATION DATA:
;; CLASSIFICATION: 800
;; APPLICATION NUMBER: 08/475,775
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Goldman, Michael L.
;; REGISTRATION NUMBER: 30,727
;; REFERENCE/DOCKET NUMBER: 14603/10050
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (716) 263-1304
;; TELEFAX: (716) 263-1600
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 385 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-819-539-3

Query Match 87.7%; Score 1074; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFCDGDDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
DB 169 MOSLFCDGDDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228

QY 61 GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 348

QY 181 EQFNKAKGMIKRPAGDTGNGNLQ 204
DB 349 EQFNKAKGMIKRPAGDTGNGNLQ 372

RESULT 9
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: US 08/475,775
;; FILING DATE: 07-JUN-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Goldman, Michael L.
;; REGISTRATION NUMBER: 30,727
;; REFERENCE/DOCKET NUMBER: 19603/10051
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (716) 263-1304
;; TELEFAX: (716) 263-1600
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 385 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; PCT-US96-08819-3

Query Match 87.7%; Score 1074; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFCDGDDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
DB 169 MOSLFCDGDDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228

QY 61 GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 348

QY 181 EQFNKAKGMIKRPAGDTGNGNLQ 204
DB 349 EQFNKAKGMIKRPAGDTGNGNLQ 372

RESULT 10
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match 86.4%; Score 1059; DB 5; Length 385;
Best Local Similarity 99.0%; Pred. No. 5.3e-97;
Matches 201; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MQSLFGDQDGTQSSSGGKQPTGEQYKKGVTDALSLGMNGLSQLLNGGLGGG 60
DB 169 MQSLFGDQDGTQSSSGGKQPTGEQYKKGVTDALSLGMNGLSQLLNGGLGGG 228
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSTRSF 120
DB 229 GNAGTGLDSSSLGGKGLRGLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSTRSF 288
QY 121 VNKGDRAKAIQFMDQYVEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 180
DB 289 VNKGDRAKAIQFMDQYVEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 348
QY 181 EQFNKAKGMIKRPMAGDTGNGL 203
DB 349 EQFNKAKGMIKRPMAGDTGNGL 371

RESULT 11
US-08-891-254-1
Sequence 1, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance In Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-891-254-1
Query Match 50.7%; Score 621; DB 1; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQYKKGVTDALSLGMNGLSQLLNGGLGGGQGNAGTGLDSSSLGG 74
DB 132 SMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSM-----SGFSQPSLGA 177
QY 75 KGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSTRSFVNKGDRAKAIQ 134
DB 178 GGLQGLSGAGAFNQLCNAICMGVQNAALSALSNVSTHVDGNRHFVDKEDRGMAKEIQ 237
QY 135 FMDQYVEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMPASMEQFNKAKGMIKRPM 194
DB 238 FMDQYVEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMPASMEQFNKAKGMIKRPM 297
QY 195 AGDTGNLNLQARAGAGGSSLGIDAMMAGDAINNMALGKLGA 235
DB 298 AGDTGNLNLQARAGAGGASLGIDAAVVGDKIANNMGLKLANA 338

RESULT 12
US-08-484-358-2
Sequence 2, Application US/08484358
Patent No. 5850015
GENERAL INFORMATION:
APPLICANT: Bauer, David
APPLICANT: Collmer, Alan
TITLE OF INVENTION: Hypersensitive Response Elicitor
TITLE OF INVENTION: From
TITLE OF INVENTION: Erwinia Chrysanthem
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,358
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/840
TELECOMMUNICATION INFORMATION:
TELEPHONE: 716-263-1304
TELEFAX: 716-263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-358-2

Query Match 50.7%; Score 621; DB 2; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQYKKGVTDALSLGMNGLSQLLNGGLGGGQGNAGTGLDSSSLGG 74
DB 132 SMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSM-----SGFSQPSLGA 177

```

Qy 75 KGLQNLSPVDYQQLGNVAVGTGIGMKAGTQALNDIGTHRRHSSTRSFVNKGDGRAMAKEIGQ 133
Db 178 GGLOGLSAGAFNQLGNAGIMGVGQVAALSAISNVSTHVDGNNRHFVDKEDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGPQYQKGPQEQVKTDDKSWAKALSKPDDGDMTPASWEOFNKAGMIKPRM 194
Db 238 FMDQYPELFGPEYQKQWSSPKTDKSWAKALSKPDDGDMTPASWEOFNKAGMIKSAV 297
Qy 195 AGDTGNGNLQARGAGSSLGIDAMMAGDAINNMALGKLGA 235
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANNSLGKLANA 338

RESULT 13
US-08-819-539-1
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-1

Query Match 50.7%; Score 621; DB 2; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1

Qy 15 SSSGGKQPTGEQNAKKYKGVTDALSGLMWNGLSQLLNGGLGGGGNAGTGLDGSSLGG 74
Db 132 SMLNASQMTQGMNAFGGVNNAISLNGNLGQSM-----SGFSQPSLGA 177
Qy 75 KGLQNLSPVDYQQLGNVAVGTGIGMKAGTQALNDIGTHRRHSSTRSFVNKGDGRAMAKEIGQ 134
Db 178 GGLOGLSAGAFNQLGNAGIMGVGQVAALSAISNVSTHVDGNNRHFVDKEDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGPQYQKGPQEQVKTDDKSWAKALSKPDDGDMTPASWEOFNKAGMIKPRM 194

```

RESULT 15
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-118-959-2

Query Match 50.7%; Score 621; DB 3; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEONAYKKGYTDALSGLMGNGLSQLLNGGLGGQGGNAGTGLDSSSLGG 74
DB 132 SMLNASQMTQGNMNFAGSGVNNALSSILGNLQSM-----SGFSPQPSLGA 177

QY 75 KGLQLSGPVDYQOLGNVGTGIGMKAGTQALNDIGTHRHSSSTRSFVNKGDRAAKEIGQ 134
DB 178 GGLQLSGGAGAFNQLGNAIGMGVQNAALSNVSTHVDGNNRHFEVDKEDRGMAKEIGQ 237

QY 135 FMDQYEVFGKPOYKQGPQGEVKTDDKSWAKALS KPD DDDGTPASMEQFNKAKGMIKRPM 194
DB 238 FMDQYFEIFGKPEYQKDGHSPPKTDKSWAKALS KPD DDDGTPASMEQFNKAKGMIKRPM 194

QY 195 AGDTGNNGNIQARGAGSSIGIDAMMAGDAINNMAKGLGAA 235
DB 298 AGDTGNNTNLNRGAGGASLGIDAAVVGDKIANMSLGLANA 338

Search completed: January 20, 2004, 14:57:57
Job time : 28.7578 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 59.5145 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_169_403

Perfect score: 1225

Sequence: 1 MQLRFGDQGTGGSSGK.....DAMMAGDAINNALGKLGA 235

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US05_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1225	100.0	403	9	US-09-086-118-23
2	1225	100.0	403	9	US-09-835-684-3
3	1225	100.0	403	9	US-09-880-371-3
4	1225	100.0	403	9	US-09-879-248-3
5	1225	100.0	403	9	US-09-770-693-3
6	1225	100.0	403	10	US-09-766-348-3
7	1225	100.0	403	12	US-10-387-806-23
8	1225	100.0	403	15	US-10-034-158-3
9	1225	100.0	403	15	US-10-010-390-3
10	621	50.7	338	9	US-09-861-597-1
11	621	50.7	338	9	US-09-835-684-1
12	621	50.7	338	9	US-09-880-371-1
13	621	50.7	338	9	US-09-879-248-1
14	621	50.7	338	9	US-09-770-693-1
15	621	50.7	338	10	US-09-766-348-1

Sequence 21, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 19, Appl
Sequence 20, Appl
Sequence 15050, A
Sequence 1, Appl
Sequence 1, Appl
Sequence 14828, A
Sequence 92, Appl
Sequence 94, Appl
Sequence 93, Appl
Sequence 25, Appl
Sequence 7, Appl
Sequence 7, Appl
Sequence 11, Appl
Sequence 5, Appl
Sequence 25, Appl
Sequence 5, Appl
Sequence 7, Appl
Sequence 727, App
Sequence 728, App
Sequence 6, Appl
Sequence 8, Appl
Sequence 13, Appl
Sequence 22, Appl
Sequence 14, Appl
Sequence 24, Appl
Sequence 31982, A

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 1225; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 60
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 403

RESULT 2
US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
APPLICANT: Remick, Dean
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
TITLE OF INVENTION: DESICCATION
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
PRIOR FILING DATE: 2001-04-16
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 1225; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 60
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 403

RESULT 3
US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Derocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
PRIOR FILING DATE: 2001-06-13
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 1225; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 60
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 403

RESULT 4
US-09-879-248-3
Sequence 3, Application US/09879248
Patent No. US20020062500A1
GENERAL INFORMATION:
APPLICANT: Fan, Hao
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 21829/81
CURRENT APPLICATION NUMBER: US/09/879,248
PRIOR FILING DATE: 2001-06-12
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 1225; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 60
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQNAKYGKGVTDALSGLMGNLSQLLNGGLGGGQ 228
QY 61 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB 229 GNAGTGLDSSSLGGKGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
DB 289 VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 235
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARGAGSSSLGIDAMMAGDAINNMLGKLGA 403

Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228
Qy 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288
Qy 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
Qy 181 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 235
Db 349 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 403

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 1225; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228
Qy 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288
Qy 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
Qy 181 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 235
Db 349 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US2002011673A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dwen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207

; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match 100.0%; Score 1225; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228
Qy 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288
Qy 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348
Qy 181 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 235
Db 349 EGFNKAAGMIKRPMAAGDTGNLQARGAGSSLGIDAMMAGDAINNMAKLGKAA 403

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match 100.0%; Score 1225; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228
Qy 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288
Qy 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348

QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 403

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match 100.0%; Score 1225; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTQSSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSQLLNGGLGGG 60
Db 169 MOSLFGDGDGTQSSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSQLLNGGLGGG 228

QY 61 GNAGTGLDSSSLGGKQLNSGPDVYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
Db 229 GNAGTGLDSSSLGGKQLNSGPDVYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGMPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGMPASM 348

QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 403

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match 100.0%; Score 1225; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.1e-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLFGDGDGTQSSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSQLLNGGLGGG 60
Db 169 MOSLFGDGDGTQSSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSQLLNGGLGGG 228

QY 61 GNAGTGLDSSSLGGKQLNSGPDVYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
Db 229 GNAGTGLDSSSLGGKQLNSGPDVYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGMPASM 180
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGMPASM 348

QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 235
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMAKLGAA 403

RESULT 10
US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-21

Query Match 50.7%; Score 621; DB 9; Length 338;
Best Local Similarity 56.1%; Pred. No. 2.1e-48;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQONAYKKGVTDALSGLMGNGLSQLLNGGLGGGQGNAGTGLDSSSLGG 74

Db 132 SMLNASQMTQGNNAFGSGVNNALSLILGNLQSQM-----SGFSQPSLGA 177
Qy 75 KGLQNLSPVDYQOQLGNVAGTIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAKEIGQ 134
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSALSNVSTHVDGNNRHFPVDEKDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 194
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 297
Qy 195 AGDTGNLQARGAGSSGIDAMMAGDAINNMAKLGKAA 235
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

RESULT 11

US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US2002001937A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR FILING DATE: 2001-04-16
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

Query Match 50.7%; Score 621; DB 9; Length 338;
Best Local Similarity 56.1%; Pred. No. 2.1e-48;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLGNLGGCGGAGNAGTGLDGSLSGG 74
Db 132 SMLNASQMTQGNNAFGSGVNNALSLILGNLQSQM-----SGFSQPSLGA 177
Qy 75 KGLQNLSPVDYQOQLGNVAGTIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAKEIGQ 134
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSALSNVSTHVDGNNRHFPVDEKDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 194
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 297
Qy 195 AGDTGNLQARGAGSSGIDAMMAGDAINNMAKLGKAA 235
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

RESULT 12

US-09-880-371-1
; Sequence 1, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13

; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match 50.7%; Score 621; DB 9; Length 338;
Best Local Similarity 56.1%; Pred. No. 2.1e-48;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLGNLGGCGGAGNAGTGLDGSLSGG 74
Db 132 SMLNASQMTQGNNAFGSGVNNALSLILGNLQSQM-----SGFSQPSLGA 177
Qy 75 KGLQNLSPVDYQOQLGNVAGTIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAKEIGQ 134
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSALSNVSTHVDGNNRHFPVDEKDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 194
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 297
Qy 195 AGDTGNLQARGAGSSGIDAMMAGDAINNMAKLGKAA 235
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

RESULT 13

US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

Query Match 50.7%; Score 621; DB 9; Length 338;
Best Local Similarity 56.1%; Pred. No. 2.1e-48;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLGNLGGCGGAGNAGTGLDGSLSGG 74
Db 132 SMLNASQMTQGNNAFGSGVNNALSLILGNLQSQM-----SGFSQPSLGA 177
Qy 75 KGLQNLSPVDYQOQLGNVAGTIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAKEIGQ 134
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSALSNVSTHVDGNNRHFPVDEKDRGMAKEIGQ 237
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 194
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAGMKIKRPM 297
Qy 195 AGDTGNLQARGAGSSGIDAMMAGDAINNMAKLGKAA 235
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	99	100.0	403	9	US-09-086-118-23		Sequence 23, Appli
2	99	100.0	403	9	US-09-835-684-3		Sequence 3, Appli
3	99	100.0	403	9	US-09-880-371-3		Sequence 3, Appli
4	99	100.0	403	9	US-09-879-248-3		Sequence 3, Appli
5	99	100.0	403	9	US-09-770-691-3		Sequence 3, Appli
6	99	100.0	403	10	US-09-766-348-3		Sequence 3, Appli
7	99	100.0	403	12	US-10-387-806-23		Sequence 23, Appli
8	99	100.0	403	15	US-10-034-358-3		Sequence 3, Appli
9	99	100.0	403	15	US-10-010-390-3		Sequence 3, Appli
10	55	55.6	195	12	US-10-340-354-675		Sequence 675, Appli
11	55	55.6	1253	12	US-10-363-798-2		Sequence 2, Appli
12	54	54.5	754	15	US-10-153-668-254		Sequence 254, Appli
13	53.5	54.0	2344	9	US-09-815-242-12713		Sequence 12713, A
14	49	49.5	600	10	US-09-738-626-5197		Sequence 5197, Appli
15	49	49.5	1189	12	US-10-369-493-22159		Sequence 22159, A

INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 99; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 2

US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
APPLICANT: Remick, Dean
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
TITLE OF INVENTION: DESICCATION
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 99; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 3

US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Derocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 99; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 4

US-09-879-248-3
Sequence 3, Application US/09879248
Patent No. US20020062500A1
GENERAL INFORMATION:
APPLICANT: Fan, Hao
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 21829/81
CURRENT APPLICATION NUMBER: US/09/879,248
CURRENT FILING DATE: 2001-06-12
PRIOR APPLICATION NUMBER: 60/212,211
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 99; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 5

US-09-770-693-3
Sequence 3, Application US/09770693
Patent No. US20020069434A1
GENERAL INFORMATION:
APPLICANT: Beer, Steven V.
APPLICANT: Bauer, David W.
TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
FILE REFERENCE: 19603/2501
CURRENT APPLICATION NUMBER: US/09/770,693
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,565
PRIOR FILING DATE: 2000-01-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 99; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 6

```
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 99; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 99; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 99; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 99; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
DB 137 STSQNDSTSGTDTSDSSD 156

RESULT 10
US-10-310-154-675
; Sequence 675, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H.
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
```

```

/      SUBMITTER ORGANIZATION:
/      APPLICANT: Kong, Xiangyin
/      APPLICANT: Xiao, Shangxi
/      APPLICANT: Zhao, Guoping
/      APPLICANT: Yu, Chuan
/      APPLICANT: Hu, Lendian
/      TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING DENTINOGENESIS IMPERFECTA
/      TITLE OF INVENTION: TYPE II USING DENTIN SIALOPHOSPHOPROTEIN GENE AND CODED
/      TITLE OF INVENTION: PRODUCT THEREOF
/      FILE REFERENCE: 9548.78USWO
/      CURRENT APPLICATION NUMBER: US/10/363,798
/

```

RESULT 13
US-09-815-242-12713
; Sequence 12713, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.

APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011a
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12713
LENGTH: 2344
TYPE: PRT
ORGANISM: Staphylococcus aureus
US-09-815-242-12713

Query Match 54.0%; Score 53.5; DB 9; Length 2344;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 14; Conservative 2; Mismatches 2; Indels 3; Gaps 1;

QY 1 STSQDSDSTSTSGTSTSDS 18
DB 1094 STSQDSDSTSTSGTSTSDS 1114

RESULT 14
US-09-738-626-5197
Sequence 5197, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAKO
APPLICANT: SENO, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 5197
LENGTH: 600
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738-626-5197

Query Match 49.5%; Score 49; DB 10; Length 600;
Best Local Similarity 66.7%; Pred. No. 1e+02;

Matches 14; Conservative 2; Mismatches 3; Indels 2; Gaps 2;
QY 1 STSQDSDSTSGTSTSDS 20
DB 426 SNSDNDST-GNDSTGSDSDS 445
RESULT 15
US-10-369-493-22159
Sequence 22159, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 22159
LENGTH: 1189
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-369-493-22159

Query Match 49.5%; Score 49; DB 12; Length 1189;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDSDSTSGTSTSDS 19
DB 1120 SSSDSDSNSDSDSVSDSS 1137

Search completed: January 20, 2004, 14:55:44
Job time : 5.06506 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 16.2082 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_105_168

Perfect score: 321

Sequence: 1 MLGSLNTLGSKGNNTTST.....DSTSDSDPMQLKMFSEI 64

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	321	100.0	403	9	US-09-086-118-23
2	321	100.0	403	9	US-09-835-684-3
3	321	100.0	403	9	US-09-880-371-3
4	321	100.0	403	9	US-09-879-248-3
5	321	100.0	403	9	US-09-770-693-3
6	321	100.0	403	10	US-09-766-348-3
7	321	100.0	403	12	US-10-387-806-23
8	321	100.0	403	15	US-10-034-158-3
9	321	100.0	403	15	US-10-010-390-3
10	77	24.0	344	9	US-09-086-118-27
11	77	24.0	344	9	US-09-835-684-11
12	77	24.0	344	9	US-09-880-371-11
13	77	24.0	344	9	US-09-879-248-15
14	77	24.0	344	9	US-09-770-693-7
15	77	24.0	344	10	US-09-766-348-7

16	77	24.0	344	12	US-10-387-806-27
17	77	24.0	344	15	US-10-034-158-7
18	77	24.0	344	15	US-10-010-390-11
19	77	24.0	344	9	US-09-815-242-12713
20	72.5	22.6	1021	9	US-09-815-242-5471
21	72.5	22.6	1021	9	US-09-815-242-12544
22	72	22.4	2283	12	US-10-172-502-4
23	71.5	22.3	205	10	US-09-738-626-5128
24	71	22.1	485	12	US-10-172-502-18
25	70.5	22.0	683	9	US-09-841-132-357
26	70.5	22.0	821	9	US-09-841-132-195
27	70.5	22.0	1776	9	US-09-841-132-179
28	70	21.8	434	12	US-10-032-585-7690
29	69	21.5	405	9	US-09-864-761-38102
30	68.5	21.3	1770	9	US-09-841-132-444
31	67.5	21.0	502	9	US-09-815-242-5904
32	67.5	21.0	560	9	US-09-815-242-13057
33	67.5	21.0	936	15	US-10-156-761-11212
34	67	20.9	1367	10	US-09-801-368-108
35	66.5	20.7	833	12	US-10-310-154-480
36	66.5	20.7	833	12	US-10-369-493-21936
37	66.5	20.7	936	8	US-08-781-986A-5249
38	66	20.6	258	12	US-10-104-047-3034
39	66	20.6	464	9	US-09-815-242-5148
40	66	20.6	1253	12	US-10-363-798-2
41	65.5	20.4	175	12	US-10-264-049-2942
42	65.5	20.4	195	10	US-09-764-864-854
43	65.5	20.4	1377	12	US-10-354-358-32
44	65.5	20.4	1377	12	US-10-169-237-16
45	65	20.2	309	12	US-10-369-493-2419

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

```
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 403 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-09-086-118-23

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 60
Db 105 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 60
Db 105 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

; INFORMATION FOR SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 60
Db 105 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 60
Db 105 MLGGSINTLGSKGGNNTTSTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
```

```
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 321; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
```

```
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 321; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 321; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSNTLGGKGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164
QY 61 FSEI 64
Db 165 FSEI 168

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviado, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
```

;; PRIOR FILING DATE: 2000-11-13
;; NUMBER OF SEQ ID NOS: 14
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 3
;; LENGTH: 403
;; TYPE: PRT
;; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match 100.0%; Score 321; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLGGSNTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDTSSDDPMQQLKMF 60
DB 105 MLGGSNTLGSKGNNTTSTNSPLDQALGINSTQNDSDTSGTSDTSSDDPMQQLKMF 164
QY 61 FSEI 64
DB 165 FSEI 168

RESULT 10
US-09-086-118-27
; Sequence 27, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-27

Query Match 24.0%; Score 77; DB 9; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTQNDSDTS-----GTDSTSDSDPMQQLKMF 61
DB 60 GGTGNTGNAPAKDGNANAGANDPSKNDPSKSOAPQSANKTGNVDNANNQDPMQALMQLL 119
QY 62 SEI 64
DB 120 EDL 122

QY 14 GNNTTSTTNSPLDQA---LGINSTQNDSDTS-----GTDSTSDSDPMQQLKMF 61
DB 60 GGTGNTGNAPAKDGNANAGANDPSKNDPSKSOAPQSANKTGNVDNANNQDPMQALMQLL 119
QY 62 SEI 64
DB 120 EDL 122

RESULT 11
US-09-835-684-11
; Sequence 11, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-835-684-11

Query Match 24.0%; Score 77; DB 9; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTQNDSDTS-----GTDSTSDSDPMQQLKMF 61
DB 60 GGTGNTGNAPAKDGNANAGANDPSKNDPSKSOAPQSANKTGNVDNANNQDPMQALMQLL 119
QY 62 SEI 64
DB 120 EDL 122

RESULT 12
US-09-880-371-11
; Sequence 11, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-880-371-11

Query Match 24.0%; Score 77; DB 9; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTQNDSDTS-----GTDSTSDSDPMQQLKMF 61

Db 60 GGNTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119
QY 62 SEI 64
Db 120 EDL 122

RESULT 13
US-09-879-248-15
; Sequence 15, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-879-248-15

Query Match 24.0%; Score 77; DB 9; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTSQNDSTSTSDSDPMQQLKMF 61
Db 60 GGNTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119
QY 62 SEI 64
Db 120 EDL 122

RESULT 14
US-09-770-693-7
; Sequence 7, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-770-693-7

Query Match 24.0%; Score 77; DB 9; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTSQNDSTSTSDSDPMQQLKMF 61
Db 60 GGNTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119

QY 62 SEI 64
Db 120 EDL 122

RESULT 15
US-09-766-348-7
; Sequence 7, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-766-348-7

Query Match 24.0%; Score 77; DB 10; Length 344;
Best Local Similarity 30.2%; Pred. No. 1.1;
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;
QY 14 GNNTTSTTNSPLDQA---LGINSTSQNDSTSTSDSDPMQQLKMF 61
Db 60 GGNTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119
QY 62 SEI 64
Db 120 EDL 122

Search completed: January 20, 2004, 14:55:44
Job time : 17.2082 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 23.5526 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_76_168

Perfect score: 475
Sequence: 1 MGGGLGGGLGGLGGGLG.....DSTSDSPMQQLKMFSEI 93

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	475	100.0	403	9	US-09-086-118-23
2	475	100.0	403	9	US-09-835-684-3
3	475	100.0	403	9	US-09-880-371-3
4	475	100.0	403	9	US-09-879-248-3
5	475	100.0	403	9	US-09-770-693-3
6	475	100.0	403	10	US-09-766-348-3
7	475	100.0	403	12	US-10-387-806-23
8	475	100.0	403	13	US-10-034-158-3
9	475	100.0	403	15	US-10-010-390-3
10	109	22.9	579	14	US-10-108-605-215
11	104	21.9	344	9	US-09-086-118-27
12	104	21.9	344	9	US-09-835-684-11
13	104	21.9	344	9	US-09-880-371-11
14	104	21.9	344	9	US-09-879-248-15
15	104	21.9	344	9	US-09-770-693-7

Sequence 7, Appli
Sequence 27, Appli
Sequence 7, Appli
Sequence 11, Appli
Sequence 34042, A
Sequence 40415, A
Sequence 3772, Ap
Sequence 20, Appli
Sequence 218, App
Sequence 17534, A
Sequence 14828, A
Sequence 6012, Ap
Sequence 20, Appli
Sequence 34114, A
Sequence 660, App
Sequence 146, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 543, App
Sequence 33790, A
Sequence 1370, Ap

16 104 21.9 344 10 US-09-766-348-7
17 104 21.9 344 12 US-10-387-806-27
18 104 21.9 344 15 US-10-034-158-7
19 104 21.9 344 15 US-10-010-390-11
20 101.5 21.4 805 12 US-10-029-386-34042
21 101 21.3 98 9 US-09-864-761-40415
22 101 21.3 567 12 US-10-104-047-3772
23 101 21.3 590 12 US-10-236-031B-20
24 101 21.3 590 15 US-10-205-823-218
25 96.5 20.3 592 12 US-10-369-493-17534
26 95.5 20.1 406 15 US-10-156-761-14828
27 94 19.8 382 10 US-09-738-626-6012
28 92.5 19.5 1079 11 US-09-820-843A-20
29 91 19.2 189 12 US-10-029-386-34114
30 89.5 18.8 381 12 US-10-295-027-560
31 89.5 18.8 597 9 US-09-793-306-146
32 89.5 18.8 3721 12 US-10-140-472-543
33 89.5 18.8 3721 12 US-10-141-761-543
34 89.5 18.8 3721 12 US-10-142-885-543
35 89.5 18.8 3721 12 US-10-158-790-543
36 89.5 18.8 3721 12 US-10-137-871-543
37 89.5 18.8 3721 12 US-10-140-805-543
38 89.5 18.8 3721 12 US-10-140-864-543
39 89.5 18.8 3721 12 US-10-140-923-543
40 89.5 18.8 3721 12 US-10-141-756-543
41 89.5 18.8 3721 12 US-10-141-759-543
42 89.5 18.8 3721 15 US-10-123-155-543
43 89.5 18.8 3721 16 US-10-146-731-543
44 88.5 18.6 166 12 US-10-029-386-33790
45 88.5 18.6 821 12 US-10-292-798-1370

ALIGNMENTS

RESULT 1

US-09-086-118-23
Sequence 23, Application US/09086118
Patent No. US20010011380A1

GENERAL INFORMATION:
APPLICANT: Laby, Ronald J.
APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600

```
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 403 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-09-086-118-23

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

; INFORMATION FOR SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 60
DB 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNTLGLSKGKNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
```



```
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
    |||||||
DB 76 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 93
    |||||||
DB 136 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 168
    |||||||

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 475; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
    |||||||
DB 76 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 93
    |||||||
DB 136 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 168
    |||||||

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
```

```
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 475; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
    |||||||
DB 76 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 93
    |||||||
DB 136 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 168
    |||||||

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 475; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
    |||||||
DB 76 MGGGLGGGNGLGGGGGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 93
    |||||||
DB 136 NSTSQNDSTSGTSDTSDSDPMPQQLKMFSEI 168
    |||||||

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
```

```
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PR
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match
Best Local Similarity 100.0%; Score 475; DB 15; Length 403;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTTNSPLDQALGI 60
Db 76 MGGGLGGGGLNGGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDTSDSDSDPQQLKMFSEI 168

RESULT 10
US-10-108-605-215
; Sequence 215, Application US/10108605
; Publication No. US20020160934A1
; GENERAL INFORMATION:
; APPLICANT: Broadus, Julie
; APPLICANT: Stam, Lynn
; APPLICANT: Bachmann, Jane
; APPLICANT: Kamdar, Kim
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
; FILE REFERENCE: 31133B
; CURRENT APPLICATION NUMBER: US/10/108,605
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 09/761,142
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/176,418
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 215
; LENGTH: 579
; TYPE: PR
; ORGANISM: Drosophila melanogaster
US-10-108-605-215

Query Match
Best Local Similarity 22.9%; Score 109; DB 14; Length 579;
Matches 31; Conservative 17; Mismatches 31; Indels 8; Gaps 4;

QY 1 MGGGLGGG---GLNGGLGGGGLGEGLSNALNDMLGGS-LNTLGSK---GGNNTTSTTNSP 53
Db 283 VGSIGGLAVGGGGAGSGGGG---GNAASGVVGGSHVGLVGSNGIGGVNSVPNSNAM 341

QY 54 LDQALGINTSQNDSTSGTDTSDSDS 80
Db 342 MGVGGGLGGSGSGSGGAGGHLNDNS 368

RESULT 11
US-09-086-118-27
; Sequence 27, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-27

Query Match
Best Local Similarity 21.9%; Score 104; DB 9; Length 344;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

QY 2 GGGGLG-GGLNGGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTTNSPLDQALGI 60
Db 175 GGGAGAGGAGGGVGGAGG-ADGGSGA-----GGAGGANGADGGNGVNGQANGPQNGDV 228

QY 61 NSTSQNDSTSGTDTSDSDSDPQQLKMFSEI 93
Db 229 NGANGADD---GSEDQGGTGVQLKMLKLNAL 258

RESULT 12
US-09-835-684-11
; Sequence 11, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PR
; ORGANISM: Pseudomonas solanacearum
US-09-835-684-11

Query Match
Best Local Similarity 21.9%; Score 104; DB 9; Length 344;
```

Best Local Similarity 31.2%, Pred. No. 0.022;
Matches 29; Conservative 37; Mismatches 17; Indels 10; Gaps 4;

Qy 2 GGGLG-GGLGNLGGSGGLEGLSNALNDMLCGSLNTLGKGCNNTTSTTNSPLDQLGI 60
 ||||| :||| |::||| ::||| :||| :||| :
Db 175 GGGAGAGAGGVGGAGG-ADGGSGA-----GGAGGANADGGNGVNGNQANGPQNADV 228

Qy 61 NSTSQNDDTSGTDTSTDSSDPMQOLIKMFSEI 93
 ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :

Db 229 NGANGADD--GSDDQGGLTGVLQKLKKILNAL 258

```

RESULT 13
US-09-880-371-11
; Sequence 11, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-880-371-11

```

Query Match	21.9%	Score 104;	DB 9;	Length 344;
Best Local Similarity	31.2%	Pred. No. 0.022;		
Matches	29;	Conservative 17;	Mismatches 37;	Indels 10; Gaps 4;
Qy	2	GGGIG-GGLGNLGGSGGLGGLGNALNDMLGGSLNTLGSKGNNTTSTTNSPLDQALGI	60	
Db	175	GGGAGAGAGGGVGGAGG-ADGGSGA-----GGAGGANGADGGVNGVNGQANGPQNGADV	228	
Qy	61	NSTQNDDSTSGTSTSDSSDPMQQLKMFSEI	93	
Db	229	NGANGADD---GSEDQGLGTGVLOKMLKINAL	258	

RESULT 14
US-09-879-248-15
; Sequence 15, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-05-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-879-248-15

Query Match 21.9%; Score 104; DB 9; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.022;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

[illegible]

RESULT 15
US-09-770-693-7
; Sequence 7, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Bear, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 7
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-770-693-7

	Query Match	21.9%	Score 104;	DB 9;	Length 344;
	Best Local Similarity	31.2%;	Pred. No. 0.022;		
Matches	.29; Conservative	17;	Mismatches	37;	Indels 10; Gaps 4;
Qy	..2	GGLG- 	GCGCL GGEGE LGSNA NDMLG SGSLN TLTGS KGNNT TTSTNS PLDQLGI	60	
Dd	175	GCGAGACGCGVGCAGG-	ADGSGA-----	CGAGGANGADGGGVNGNQANGPQNAGDV	228
Qy	61	NSTSQNDNSTGTDTSDSDDSPMQQLLKMFSEI	93		
Dd	229	NGAGDD-- --GSEDQGGLTGVLKMKILNAL	258		

Search completed: January 20, 2004, 14:55:43
Job time : 23.5526 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.5976 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_121_150

Perfect score: 150
Sequence: 1 TTSTNPLDQALGINSQNDDSGTDS 30

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA.*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	150	100.0	403	9	US-09-086-118-23
2	150	100.0	403	9	US-09-835-684-3
3	150	100.0	403	9	US-09-880-371-3
4	150	100.0	403	9	US-09-879-248-3
5	150	100.0	403	9	US-09-770-693-3
6	150	100.0	403	10	US-09-766-348-3
7	150	100.0	403	12	US-10-387-806-23
8	150	100.0	403	15	US-10-034-158-3
9	150	100.0	403	15	US-10-010-390-3
10	56	37.3	1025	15	US-10-055-475-2
11	56	37.3	1025	15	US-10-055-475-7
12	56	37.3	1025	15	US-10-055-475-9
13	56	37.3	1025	15	US-10-228-897-2
14	55.5	37.0	1402	12	US-10-379-616-12
15	54	36.0	485	12	US-10-172-502-18

16	54	36.0	2283	12	US-10-172-502-4	Sequence 4, Appli
17	54	36.0	2344	9	US-09-815-242-12713	Sequence 12713, A
18	53	35.3	775	15	US-10-156-761-12824	Sequence 12824, A
19	53	35.3	929	15	US-10-156-761-11828	Sequence 11828, A
20	52	34.7	683	9	US-09-841-132-357	Sequence 357, App
21	52	34.7	821	9	US-09-841-132-195	Sequence 195, App
22	52	34.7	1178	15	US-10-128-714-8240	Sequence 8240, Ap
23	52	34.7	1776	9	US-09-841-132-179	Sequence 179, App
24	51.5	34.3	205	10	US-09-738-626-5128	Sequence 5128, Ap
25	51.5	34.3	458	11	US-09-770-564-9	Sequence 9, Appli
26	51.5	34.3	593	11	US-09-988-067B-66	Sequence 66, Appl
27	51.5	34.3	635	12	US-10-093-524-12	Sequence 12, Appli
28	49.5	33.0	951	12	US-10-379-616-8	Sequence 8, Appli
29	49.5	33.0	1021	9	US-09-815-242-5471	Sequence 5471, Ap
30	49.5	33.0	1021	9	US-09-815-242-12544	Sequence 12544, A
31	49.5	33.0	1420	12	US-10-379-616-4	Sequence 4, Appli
32	49	32.7	313	12	US-10-032-585-7711	Sequence 7711, Ap
33	49	32.7	769	12	US-10-032-585-7117	Sequence 7117, Ap
34	49	32.7	946	12	US-09-840-746-1	Sequence 1, Appli
35	49	32.7	1481	10	US-09-371-900-40	Sequence 40, Appl
36	49	32.7	1481	10	US-09-924-417-60	Sequence 60, Appl
37	49	32.7	1481	12	US-10-186-950-40	Sequence 40, Appl
38	48	32.0	309	12	US-10-369-493-2419	Sequence 2419, Ap
39	48	32.0	344	12	US-10-369-493-2420	Sequence 2420, Ap
40	48	32.0	430	15	US-10-043-487-265	Sequence 265, App
41	48	32.0	553	12	US-10-347-278-13	Sequence 13, Appl
42	48	32.0	553	12	US-10-347-252-13	Sequence 13, Appl
43	48	32.0	562	15	US-10-083-357-1329	Sequence 1329, Ap
44	48	32.0	605	10	US-09-801-368-428	Sequence 428, App
45	48	32.0	605	12	US-10-369-493-22016	Sequence 22016, A

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:

APPLICANT: Baby, Ronald J.

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 150; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

RESULT 2

US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 150; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

RESULT 3

US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 150; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

RESULT 4

US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 150; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

RESULT 5

US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 150; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

RESULT 6

```
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beet, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 150; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTTNSPLDQALGINSTSQNDSTSGTDS 30
Db      121 TTSTTNSPLDQALGINSTSQNDSTSGTDS 150

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beet, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 150; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTTNSPLDQALGINSTSQNDSTSGTDS 30
Db      121 TTSTTNSPLDQALGINSTSQNDSTSGTDS 150

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US2003028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
```

```
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 150; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTTNSPLDQALGINSTSQNDSTSGTDS 30
Db      121 TTSTTNSPLDQALGINSTSQNDSTSGTDS 150

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Erneato
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 150; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 8e-13;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTTNSPLDQALGINSTSQNDSTSGTDS 30
Db      121 TTSTTNSPLDQALGINSTSQNDSTSGTDS 150

RESULT 10
US-10-055-475-2
; Sequence 2, Application US/10055475
; Publication No. US20030022855A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; APPLICANT: Gopalkrishnan, Rahul V.
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)
; CURRENT APPLICATION NUMBER: US/10/055,475
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US01/06960
```

```
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-2

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 11
US-10-055-475-7
; Sequence 7, Application US/10055475
; Publication No. US20030022855A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)
; CURRENT APPLICATION NUMBER: US/10/055,475
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-7

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 12
US-10-055-475-9
; Sequence 9, Application US/10055475
; Publication No. US20030022855A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)
; CURRENT APPLICATION NUMBER: US/10/055,475
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-9

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 13
US-10-228-897-2
; Sequence 2, Application US/10228897
; Publication No. US20030092043A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; APPLICANT: Gopalkrishnan, Rahul V.
; TITLE OF INVENTION: MELANOMA DIFFERENTIATION ASSOCIATED
; TITLE OF INVENTION: GENE-S AND PROMOTER AND USES THEREOF
; FILE REFERENCE: A34614-A-PCT-USA (070050.2121)
; CURRENT APPLICATION NUMBER: US/10/228,897
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-228-897-2

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 14
US-10-379-616-12
; Sequence 12, Application US/10379616
; Publication No. US20030153047A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA represented by THE SE
; TITLE OF INVENTION: AIB1, A novel steroid receptor co-activator
; FILE REFERENCE: 49944
; CURRENT APPLICATION NUMBER: US/10/379,616
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US/09/125,635
; PRIOR FILING DATE: 1998-08-21
; PRIOR APPLICATION NUMBER: 60/049,728
; PRIOR FILING DATE: 1997-06-17
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 1402
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-379-616-12

Query Match      37.0%; Score 55.5; DB 12; Length 1402;
Best Local Similarity 44.1%; Pred. No. 59;
```


Matches 15; Conservative 4; Mismatches 10; Indels 5; Gaps 1;
 QY 2 TSTNSPL-----DQALGINSTSQNDSTSGTDS 30
 :||||| : : : : :
 Db 627 SSLTNSPLDPNCKDSSSVTSPTSPGVSSSTSGTVS 660

RESULT 15
 US-10-172-502-18
 ; Sequence 18, Application US/10172502
 ; Publication No. US20030185833A1
 ; GENERAL INFORMATION:
 ; APPLICANT: FOSTER, Timothy et al.
 ; TITLE OF INVENTION: CROSS-REACTIVE MONOCLONAL AND POLYCLONAL ANTIBODIES.
 ; FILE REFERENCE: P07263US01/BAS
 ; CURRENT APPLICATION NUMBER: US/10/172,502
 ; CURRENT FILING DATE: 2002-06-17
 ; PRIOR APPLICATION NUMBER: US 60/298,098
 ; PRIOR FILING DATE: 2001-06-15
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 18
 ; LENGTH: 485
 ; TYPE: PRT
 ; ORGANISM: Staphylococcus epidermidis
 US-10-172-502-18

Query Match 36.0%; Score 54; DB 12; Length 485;
 Best Local Similarity 44.8%; Pred. No. 27;
 Matches 13; Conservative 5; Mismatches 11; Indels 0; Gaps 0;
 QY 2 TSTNSPLDQALGINSTSQNDSTSGTDS 30
 :||||| : : : : :
 Db 61 TSTNSTSNQOEKLTSTSESTSSKNTSS 89

Search completed: January 20, 2004, 14:55:43
 Job time : 8.5976 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.5976 Seconds
(without alignments)
807.418 Million cell updates/sec

Title: US-09-412-100-23_COPY_137_166

Perfect score: 149
Sequence: 1 STSQNDSTSGTSDSDPMQLKMF5 30

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pap.*
- 2: /cgn2_6/ptodata/1/pubpaa/PTC_NEW_PUB.pap.*
- 3: /cgn2_6/ptodata/1/pubpaa/US05_NEW_PUB.pap.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pap.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pap.*
- 6: /cgn2_6/ptodata/1/pubpaa/PTCUS_PUBCOMB.pap.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pap.*
- 8: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pap.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pap.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pap.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pap.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pap.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pap.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pap.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pap.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pap.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pap.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	149	100.0	403	9	US-09-086-118-23
2	149	100.0	403	9	US-09-835-684-3
3	149	100.0	403	9	US-09-880-371-3
4	149	100.0	403	9	US-09-879-248-3
5	149	100.0	403	9	US-09-770-693-3
6	149	100.0	403	10	US-09-766-348-3
7	149	100.0	403	12	US-10-387-806-23
8	149	100.0	403	15	US-10-034-158-3
9	149	100.0	403	15	US-10-010-390-3
10	57	38.3	428	15	US-10-056-884-2
11	57	38.3	435	15	US-10-080-980-4
12	55	36.9	195	12	US-10-310-154-675
13	55	36.9	1253	12	US-10-363-798-2
14	54	36.2	283	12	US-10-289-762-424
15	54	36.2	382	10	US-09-993-844-4

16	54	36.2	398	9	US-09-823-114-16
17	54	36.2	398	10	US-09-966-871-1
18	54	36.2	398	10	US-09-966-871-79
19	54	36.2	398	11	US-09-841-720-2
20	54	36.2	398	14	US-10-039-645-1
21	54	36.2	398	14	US-10-039-645-79
22	54	36.2	398	15	US-10-290-748-16
23	54	36.2	412	15	US-10-080-917-11
24	54	36.2	754	15	US-10-153-668-254
25	54	36.2	1258	10	US-09-867-852-107
26	54	36.2	1770	9	US-09-841-132-444
27	53.5	35.9	2344	9	US-09-815-242-12713
28	53	35.6	279	12	US-10-410-842A-62
29	53	35.6	555	10	US-09-929-629-5
30	51.5	34.6	1377	12	US-10-354-358-32
31	51.5	34.6	1377	12	US-10-169-297-16
32	51	34.2	683	9	US-09-841-132-357
33	51	34.2	821	9	US-09-841-132-195
34	51	34.2	1031	9	US-09-815-242-10932
35	51	34.2	1776	9	US-09-841-132-179
36	50	33.6	739	12	US-10-374-979-89
37	50	33.6	739	15	US-10-097-534-10
38	50	33.6	752	11	US-09-919-039-235
39	50	33.6	947	15	US-10-293-822-1
40	50	33.6	1474	12	US-10-369-493-6164
41	50	33.6	1474	12	US-10-369-493-6165
42	49.5	33.2	1378	12	US-10-205-219-50
43	49	32.9	236	12	US-10-371-059-147
44	49	32.9	236	12	US-10-371-264-161
45	49	32.9	236	12	US-10-371-122-147

ALIGNMENTS

RESULT 1

US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 149; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 2

US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
APPLICANT: Remick, Dean
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
TITLE OF INVENTION: DESICCATION
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
PRIOR FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 149; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 3

US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059659A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Derocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
PRIOR FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 149; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 4

US-09-879-248-3
Sequence 3, Application US/09879248
Patent No. US20020062500A1
GENERAL INFORMATION:
APPLICANT: Pan, Hao
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 21829/81
CURRENT APPLICATION NUMBER: US/09/879,248
CURRENT FILING DATE: 2001-06-12
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: 60/212,211
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 149; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 5

US-09-770-693-3
Sequence 3, Application US/09770693
Patent No. US20020069434A1
GENERAL INFORMATION:
APPLICANT: Beer, Steven V.
APPLICANT: Bauer, David W.
TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
FILE REFERENCE: 19603/2501
CURRENT APPLICATION NUMBER: US/09/770,693
CURRENT FILING DATE: 2001-01-26
PRIOR FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: 60/178,565
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 149; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 6

```
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 149; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMFS 30
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMFS 166

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 149; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMFS 30
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMFS 166

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
```

```
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 149; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMFS 30
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMFS 166

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 149; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.5e-12;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSDSDPMQQLKMFS 30
Db      137 STSQNDSTSGTSDTSDSDPMQQLKMFS 166

RESULT 10
US-10-056-884-2
; Sequence 2, Application US/10056884
; Publication No. US20030032786A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU
; TITLE OF INVENTION: K-betaM2
; FILE REFERENCE: D0076 NP
; CURRENT APPLICATION NUMBER: US/10/056,884
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 60/263,872
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: US 60/269,794
```

```

; PRIOR FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-056-884-2

Query Match      38.3%; Score 57; DB 15; Length 428;
Best Local Similarity 48.0%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY      2 TSCNDLSTSGTSDTSSDPWQQL 26
Db      305 TSCNDLSTSCDSQSEASSPQETVI 329

RESULT 11
US-10-080-980-4
; Sequence 4, Application US/10080980
; Publication No. US20030036115A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU
; FILE OF INVENTION: K+betaM6, EXPRESSED HIGHLY IN THE SMALL INTESTINE
; FILE REFERENCE: D0121 NP
; CURRENT APPLICATION NUMBER: US/10/080,980
; CURRENT FILING DATE: 2002-02-21
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/270,132
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/278,953
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-080-980-4

Query Match      38.3%; Score 57; DB 15; Length 435;
Best Local Similarity 48.0%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY      2 TSCNDLSTSGTSDTSSDPWQQL 26
Db      312 TSCNDLSTSCDSQSEASSPQETVI 336

RESULT 12
US-10-310-154-675
; Sequence 675, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
; APPLICANT: Boddupalli, Raghava
; APPLICANT: Deikman, Jill
; APPLICANT: Peng, Molian
; APPLICANT: Dong, Jinzhao
; APPLICANT: Duff, Stephen M.
; APPLICANT: Galligan, Meghan M.
; APPLICANT: Hinchey, Brenda S.
; APPLICANT: Huang, Shihshieh
; APPLICANT: Johnson, G. Richard

US-10-080-980-4

Query Match      38.3%; Score 57; DB 15; Length 435;
Best Local Similarity 48.0%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY      2 TSCNDLSTSGTSDTSSDPWQQL 26
Db      312 TSCNDLSTSCDSQSEASSPQETVI 336

RESULT 13
US-10-363-798-2
; Sequence 2, Application US/10363798
; Publication No. US20030180280A1
; GENERAL INFORMATION:
; APPLICANT: Kong, Xiangyin
; APPLICANT: Xiao, Shangxi
; APPLICANT: Zhao, Guoping
; APPLICANT: Yu, Chuan
; APPLICANT: Hu, Landian
; TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING DENTINOGENESIS IMPERFECTA
; FILE OF INVENTION: TYPE II USING DENTIN SIALOPHOSPHOPROTEIN GENE AND CODED
; FILE REFERENCE: 9548.78USWO
; CURRENT APPLICATION NUMBER: US/10/363,798
; CURRENT FILING DATE: 2003-03-05
; PRIOR APPLICATION NUMBER: CN 00125042.6
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1253
; TYPE: PRT
; ORGANISM: Homo sapiens
```

```

; APPLICANT: Jung, Vincent
; APPLICANT: Kretzmer, Keith A
; APPLICANT: Laccetti, Lucille B.
; APPLICANT: Lai, Chao-Qiang
; APPLICANT: Lee, Gary
; APPLICANT: Lin, Jie-Yi
; APPLICANT: Liu, Jingdong
; APPLICANT: Lu, Bin
; APPLICANT: Luethy, Michael M.
; APPLICANT: Lund, Adrian
; APPLICANT: Madson, Linda L.
; APPLICANT: Malloy, Kathleen A.
; APPLICANT: McKiel, Christine L.
; APPLICANT: Miller, Philip W.
; APPLICANT: Padmavathi, Manchikanti
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Start, William G.
; APPLICANT: Tennesen, Dan
; APPLICANT: Vidya, K.R.
; APPLICANT: Wang, Haiyun
; APPLICANT: Xin, Zhanquo
; APPLICANT: Xu, Nanfei
; APPLICANT: Yang, Chunzhi
; APPLICANT: Zeng, Xiaoping
; APPLICANT: Zhang, Qiang
; APPLICANT: Zhao, Yajuan
; APPLICANT: Zhou, Li
; TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants
; FILE REFERENCE: 38-15(52796)B
; CURRENT APPLICATION NUMBER: US/10/310,154
; CURRENT FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 736
; SEQ ID NO 675
; LENGTH: 195
; TYPE: PRT
; ORGANISM: Zea mays
US-10-310-154-675

Query Match      36.9%; Score 55; DB 12; Length 195;
Best Local Similarity 55.0%; Pred. No. 9.1;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY      1 STSQNDSTSGTSDTSSDSD 20
Db      129 SSSSSSSSSGSDSSSSSD 148

RESULT 13
US-10-363-798-2
; Sequence 2, Application US/10363798
; Publication No. US20030180280A1
; GENERAL INFORMATION:
; APPLICANT: Kong, Xiangyin
; APPLICANT: Xiao, Shangxi
; APPLICANT: Zhao, Guoping
; APPLICANT: Yu, Chuan
; APPLICANT: Hu, Landian
; TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING DENTINOGENESIS IMPERFECTA
; FILE OF INVENTION: TYPE II USING DENTIN SIALOPHOSPHOPROTEIN GENE AND CODED
; FILE REFERENCE: 9548.78USWO
; CURRENT APPLICATION NUMBER: US/10/363,798
; CURRENT FILING DATE: 2003-03-05
; PRIOR APPLICATION NUMBER: CN 00125042.6
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1253
; TYPE: PRT
; ORGANISM: Homo sapiens
```

..

THIS PAGE BLANK (USPTO)